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PAYLOAD CREW TRAINING SCHEDULER (PACTS) USER'S MANUAL

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NASA

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PAYLOAD CREW TRAINING SCHEDULER (FACTS) USER'S MANUAL

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CHAPTER I: GENERAL

101 PURPOSE

This manual provides procedures for operating the Payload Crew Training Scheduler (PACTS).

102 APPLICABILITY

The provisions of this handbook are applicable to all Marshall Space Flight Center (MSFC) organizations which use PACTS for scheduling purposes.

103 DEFINITIONS

For definitions applicable to this manual, see Appendix A.

CHAPTER II: RESPONSIBILITIES

201 DOCUMENTATION MAINTENANCE

The Operations Planning and Analysis Branch, Systems Analysis and Integration Laboratory is responsible for documentation maintenance and will:

- 1. Assess all UNIVAC 1108, PDP 11/70, PDP 11/45, and Marshall Integrated Planning Systems (MIPS) changes for possible impact on PACTS operations.
- 2. Update PACTS documentation periodically and notify users of any changes to operating procedures.

202 TRAINING

The Operations Planning and Analysis Branch will provide training to PACTS users on an individual request basis.

203 PROGRAM UTILIZATION

MSFC organizations which use PACTS for scheduling purposes will:

- 1. Provide trained personnel to run the PACTS program.
- 2. Provide Cathode Ray Tube (CRT) terminals for accessing the UNIVAC 1108 and PDP 11/70 and 11/45 computers to run the PACTS program.

CHAPTER III: SYSTEM DESCRIPTION

301 UNIVAC 1108 COMPUTER SYSTEM

PACTS is designed to run on the UNIVAC 1108, Executive 8 computer system at operating level 33R2. The UNIVAC 1108 is a large class general purpose computer with a variety of peripheral equipment available including line printers, plotters, and interactive CRT terminals.

At MSFC, interactive access to the UNIVAC 1108 is by telephone line using a Modem (data set). A Modem converts computing equipment digital signals into signals that can be used by the voice-oriented transmission system. Actual hookup between the CRT terminal and the UNIVAC 1108 is accomplished by dialing the computer number and pulling the white receiver button up when a high pitched tone is heard. The hookup is terminated by replacing the telephone receiver in its cradle.

302 PDP 11/70 AND 11/45 COMPUTER SYSTEMS

The PDP 11/70 and 11/45 are mini class general purpose computers which provide high speed, real time access for large multi-user, multi-task, time-shared applications requiring large amounts of addressable memory space. The PDP 11/70 is the larger of the two computers and is linked to the UNIVAC 1108 by two 1200 baud telephone lines which limit the transfer of data across the lines to 1200 bits per second. The MIPS program is mounted in resident storage in the PDP 11/70; thus, UNIVAC 1108 MIPS data can be transferred directly to the PDP 11/70 MIPS files.

Although the PDP 11/45 is smaller, it has additional features which are useful for running PACTS. Specifically, it is equipped with an Interactive Graphics Display System which is linked to a CALCOMP 960 plotter. IGDS is used to interact with PACTS and the 960 plotter is used to produce 30 x 60 inch waterfall schedules. Univac 1108 data is transferred to and from the PDP 11/45 by two methods. The first method is to transfer the data to the PDP 11/70 via the 1200 baud telephone lines and store it on a cartridge disk. This disk is

manually transferred from the PDP 11/70 to the PDP 11/45. An alternate method of transferring data is to store the UNIVAC 1108 data on a magnetic tape which can be hand transported to the PDP computer room and mounted in the PDP 11/45 tape drive. A chart of the UNIVAC 1108 - PDP 11/70/45 hardware system showing these data transfer features is shown in Figure 1.

303 MARSHALL INTERACTIVE PLANNING SYSTEM (MIPS)

The Marshall Interactive Planning System (MIPS) is designed to provide the user with a close interface to his analysis through the use of interactive graphics at a remote computer terminal. The standard systems approach is employed in MIPS whereby analysis and utility modules (programs) can be linked together with a simple interactive control language. The user is able to use MIPS to coordinate the sequence of execution of modules, to facilitate the handling of data, and to control the problem flow. The user of MIPS is, in effect, interactively constructing a computerized solution to a planning problem while working at the CRT.

The PACTS program was built using MIPS. A user of PACTS is actually running the computerized MIPS solution (latest version of the program) to the Payload Crew Training Scheduling problem. The sequence of execution, data handling and problem flow were determined previously and are invisible to the PACTS user. The PACTS user sees only a set of tutorials which advise him of what input data is required and after PACTS has been run, he will see the scheduling results (output). All other operations of the scheduler and MIPS are masked to the PACTS user.

304 PACTS SYSTEM

PACTS is a fully automated, interactive, computerized scheduling program equipped with tutorial displays. The tutorial displays are sufficiently detailed for use by a user having no previous computer terminal experience. The man machine interface (computer terminal) uses a cursor-CRT technique for making real time scheduling changes.

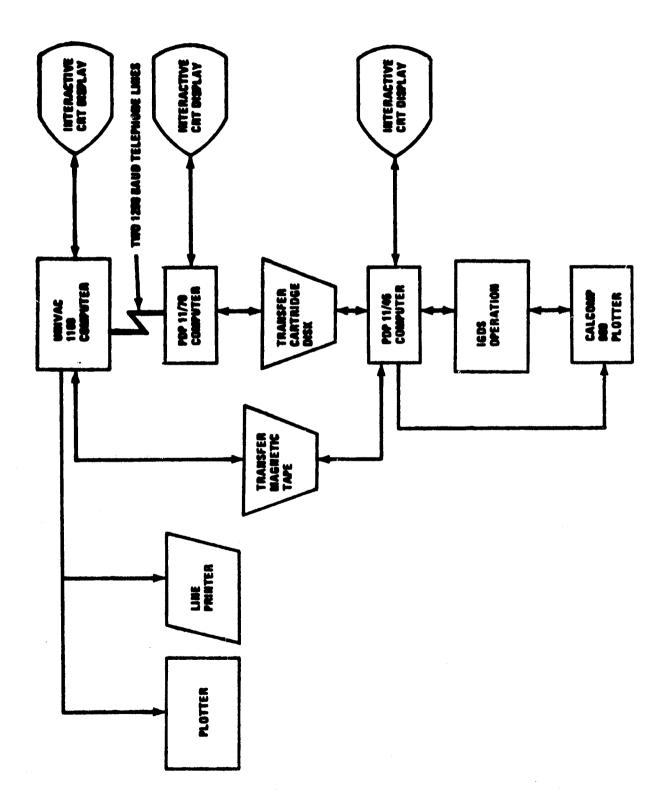


FIGURE 1. UNIVAC 1108 - PDP 11/70/45 HARDWARE SYSTEM

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PACTS is designed to operate on the UNIVAC 1108, Executive 8, in the MIPS operating mode. It has the capability to load PACTS output into the PDP 11/45 Interactive Graphics Display System (IGDS) which will permit schedule interaction by the user and will printout a 30 by 60 inch annotated waterfall schedule using the CALCOMP 960 plotter.

Other functional features of the system are:

The system can schedule up to three overlapping missions.

PACTS has four independent modules; an input module, Payload Crew Training Data Base (PACTDB); a computation module, Payload Crew Training Scheduler (PACTS); an editing module, Payload Crew Training Editor (PACTED); and an output module, Payload Crew Training Report Generator (PACTRG).

A system flowchart of the four modules with the PDP 11/70 and 11/45 conversion programs is shown in Figure 2.

Figure 2 explanation:

PACTDB creates a Name Directed File (NDF) which contains data that is stored and retrieved by name.

PACTS uses the Name Directed File (NDF) to create a List Directed File (LDF), which contains event timeline data that is stored and retrieved when specified acceptance conditions are met, and an ON/OFF file which contains crew activity data.

PACTED uses the List Directed File (LDF) and Name Directed Files (NDF) to allow manual editing and the writing of new List Directed Files (LDF) and ON/OFF files.

PACTRG used the Name Directed File (NDF), the List Directed File (LDF) and the ON/OFF file to generate specialized tabulations and plots.

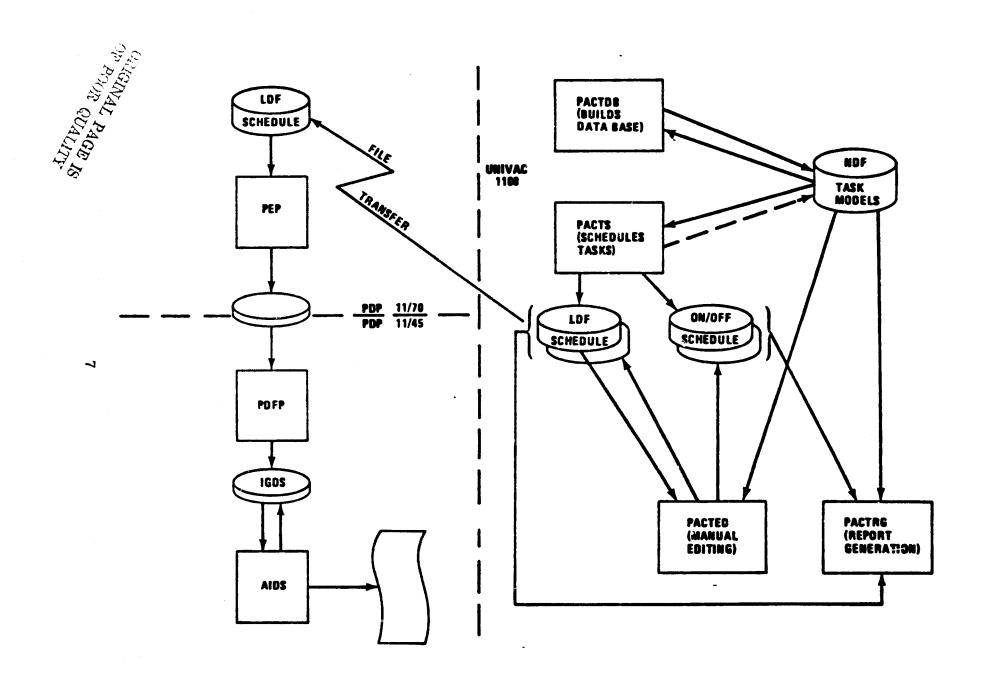
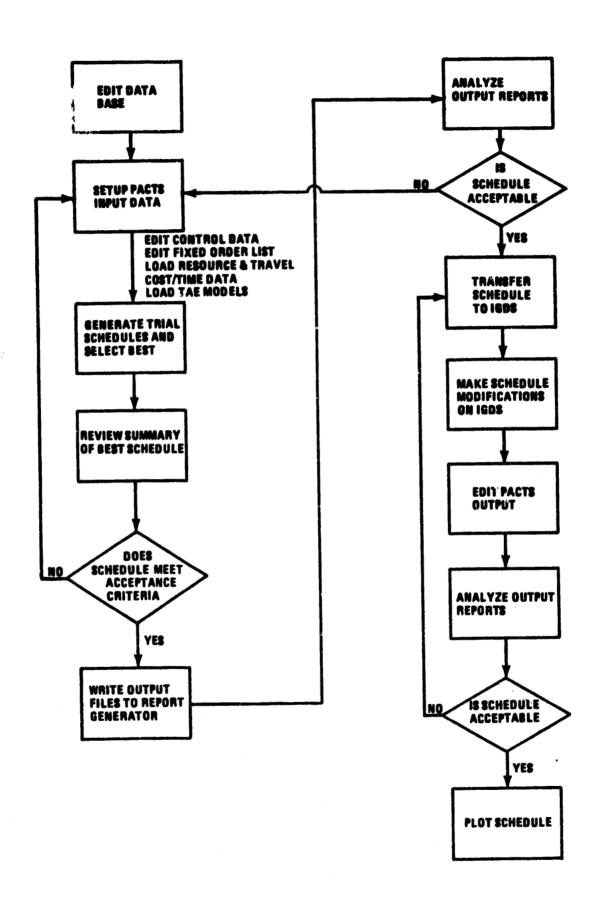


FIGURE 2. PACTS SYSTEM FLOW CHART

The PDP 11/70 PACTS Extract Program (PEP) converts and transfers the List Directed File (LDF) to a disk carridge for transfer to the PDP 11/45.

The PDP 11/45 PACTS Design File Program (PDFP) converts and transfers the List Directed File (LDF) to IGDS.

A Scheduler Operational Flow is shown in Figure 3.



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FIGURE 3. SCHEDULER OPERATIONAL FLOW

CHAPTER IV: SYSTEM OPERATION

401 PACTS DATA BASE MODULE (PACTDB)

PACTDB module performs data input and editing of a PACT Name Directed File (NDF) to be used in module PACTS. Data which can be inputted or edited are the lists of TAE groups, list of payload specialists and their initial locations, list of work locations, travel cost, travel time data to and from a location, detailed group and task activity element (TAE) data and list of resources. Special provisions are included to initialize an empty data file. The module includes an option to print the entire data base on a alternate print file for any specified mission and in the same format as the CRT displays. The only exception is that the travel cost/time data is displayed in matrix form in the alternate print file. A program block diagram and computer configuration are included in Appendix B.

The user can run PACTS in batch mode or online from a CRT. The only option which is restricted is the detailed group and TAE data which must be run on the CRT.

PACTDB is an all tutorial program which uses standard input images and has two menus, PACTDB main menu and travel cost and time data menu. A complete set of tutorial displays for PACTDB is included in Appendix C.

402 PACTS SCHEDULER MODULE (PACTS)

PACTS module receives input data from the PACTDB module, performs scheduling operations and transfers the results to the PACTRG module. PACTS has options to create a MIPS file, to transfer to PACTDB, setup input data, generate trial schedules and select the best, display a summary of the best schedule, tabulate schedule and write in the output file, transfer to PACTRG, and save control data for future use. Utilizing a pseudo-random selection process, PACTS generates a family of schedules and selects the best on the basis of user determined priorities, such as schedule cost and number of activities scheduled. After selection, TAES are scheduled at the earliest opportunity time, without violating resource and travel constraints. A program block diagram and computer configuration are included in Appendix D.

PACTS accepts input from the TAE data base created by the PACTDB module which can be assessed for editing purposes from PACTS. Schedule control and mission level data may be input from the terminal or stored and retrieved from a MIPS name-directed file (NDF). This data may also be edited to test alternative schedules.

PACTS produces a schedule summary table for display at the terminal and a schedule tabulation on the alternate print file. The module also produces a List Directed File (LDF) and an ON/OFF file. The user may transfer to the PACTRG module to display these files.

PACTS is an all tutorial program which uses standard input images and has two menus, PACTS main menu and a Setup/Edit Input Data Menu. A complete set of tutorial displays for PACTS is included in Appendix E. PACTS is available at a CRT terminal or in batch mode.

403 PACTS TIMELINE EDITOR MODULE (PACTED)

Payload Crew Training Editor (PACTED) is an interactive module which displays and edits the timeline produced by the scheduling module (PACTS). PACTED uses the List Directed File (LDF) created by PACTS and the Name Directed File (NDF) created by PACTDB to create a Scratch File for editing. Upon completion of editing PACTED writes updated List Directed Files and ON/OFF Files. Travel analysis is performed only when the option to edit the event timeline is being executed. Data which may be displayed and edited are the crew timeline, the event timeline, and the composite timeline. Additional options are available to delete a TAE group from the timeline, delete a crew from the timeline, and to write new timeline files. Finally, options are available for transfer either to PACTRG module or PACTDB module. A program block diagram and computer configuration are included in Appendix F.

PACTED is an all tutorial module which uses standard input images and has a main menu, input menu, output menu and a control menu. A complete set of tutorial displays for PACTED is included in Appendix G. PACTED is available at a CRT terminal or in batch mode.

404 PACTS REPORT GENERATOR MODULE (PACTRG)

Payload Crew Training Report Generator (PACTRG) uses the PACT data base file containing Training Activity Element (TAE) descriptions and the output files from the module PACTS containing the crew training schedule to generate specialized tabulations and plots. Tabulations available are: a composite schedule, a composite schedule with cost and duration, a schedule summary for all the TAE groups, unscheduled time for all crewmen, a schedule for an individual crewman, and unscheduled time and locations for an individual crewman. Tabulations on the terminal may be omitted when producing tabulations on the print file. The module includes an option to print on the page file all tabulations for a specified time frame. Bar graph plots available are: a schedule for all TAE groups, scheduling opportunities for all TAE groups, unscheduled time for all crewmen, a timeline of locations, a resource utilization timeline, and a location timeline for an individual crewman. A program block diagram and computer configuration are included in Appendix H. The user can run PACTRG in batch mode or online from a CRT. The only exception is that plots must be run on the CRT.

PACTRG is an all tutorial program which uses standard input images and has a main menu and a display menu. A complete set of tutorial displays for PACTRG is included in Appendix I.

405 PACTS/IGDS INTERFACE MODULES

Several programs have been developed which, when used with the general file transfer capability of MIPS provide display of a crew training schedule through the Interface Graphics Design System (IGDS) on the CALCOM 960 plotter (Ref: Fig. L-1, App. L).

PACTS List-Directed File Conversion Program (PACT36):

PACT36 was developed to convert the 24-word list-directed file output by the PACTS module to a 36-word list-directed file containing 4 character alphanumeric data for transfer from the UNIVAC 1108 to the PDP 11/70.

A 36-word list-directed file has been created with an expiration date of ten years. The maximum number of records that can be written on the file is 5000. If the user should need a larger file

or more than one file, the MIPS CF Command on the UNIVAC 1108 or the IN Command on the PDP 11/70 may be used. An example of a PACT36 run and a CF and IN Command are included in Appendix L.

MIPS GET Command and UPFIT Module:

After running PACT36, the user may use the MIPS GET Command on the PDP 11/70 or the UPFIT Module on the UNIVAC 1108/80 to write the file to tape for transfer to the PDP 11/70. Examples of a GET Command and the use of the UPFIT Module are included in Appendix L.

PACTS Extract Program (PEP):

PEP on the PDP 11/70 reads the list-directed file, reformats the data and writes a sequential file for use as input to the PACTS Design File Program (PDFP) on the PDP 11/45. Output from PEF may be written directly to a small disk pack by selecting the option for the disk drive on which the disk has been mounted. Examples of PEP runs are included in Appendix L.

PACTS Design File Program (PDFP)

PDFP on the PDP 11/45 uses files written by the PEP module on the PDP 11/70 as input. PDFP stores three levels of data in the design file. Level two contains the event bars. Level three contains the test associated with each bar (words 7, 8, 10, 11, 12, 13, and 14 from the 36-word list-directed file). The first level contains a frame and the alphanumeric dates associated with the event bars.

The lengths of the event bars are calculated from the event times read from the list-directed file, i.e, length (in days) = (end of event) - (start of event). PDFP uses a scale of 50 units of resolution (UORs) per day. The height of each bar is 72 UORs and text dimensions are: height = 50 UORs, and width = 50 UORs.

Minimum and maximum X-coordinates are 2736 and 18,300 UORs respectively. Minimum and maximum Y-coordinates are 0 and 7650 UORs initially. For each new year to be stored Y-axis coordinates are calculated using the formulas YMIN = YMAX + 1000 and YMAX = YMAX + 7650.

CHAPTER V: PACTS OPERATING PROCEDURES

501 UNIVAC 1108 LOGON/LOGOFF PROCEDURES

UNIVAC 1108 LOGON Procedure (Refer to Appendix J)

The user dials 3-4850 on the modern telephone of any terminal that is linked to the UNIVAC 1108. Upon kenting a high pitch sound, the user pulls the white receiver button upward which completes the modern connection. The telephone receiver will then be placed along side the modern telephone.

Note: A busy signal upon completion of dialing means all the UNIVAC 1108 lines are busy and the user must wait.

As soon as the user pulls the white receiver button up, the CRT screen will activate and the user will see the words SIGNON. The user must then type in the number of the terminal being used and strike the return key.

Note: During all interaction with the computer, the user acknowledges the end of his input with the return key.

The computer will acknowledge the user's terminal number by typing ENTER USERID/PASSWORD: Beginning with this acknowledgement, the computer will call for user input by the symbol > at the start of each input line. For this particular input, the user must type in PACTS/HCC after the symbol >.

The computer will acknowledge the USERID/PASSWORD by printing out several lines of information concerning the UNIVAC 1108 system. Then it calls for user input with the symbol >. The user must then type in @MIPS, L. This command brings the MIPS system to the user's terminal. The user must now use MIPS commands to direct computer operations.

UNIVAC 1108 LOGOFF Procedure (refer to Appendix J)

The user issues two commands to terminate the UNIVAC 1108 hookup. The first command @ FIN advises the computer that

the run is finished. The computer will then print the run ID, time, date, and other accounting information and will end its communication with *TERMINAL INACTIVE*.

The second command @@TERM advises the computer to terminate the connection between the CRT and the UNIVAC 1108. The computer responds by dropping the line which causes the modem to disconnect.

502 MIPS COMMANDS (Refer to Appendix K)

After the user has completed the UNIVAC 1108 logon procedures and has typed in @MIPS, 1, the terminal mode will be MIPS. All further command lines on the CRT terminal will be proceeded by the word MIPS>, (e.g., MIPS> RUN PACTDB).

MIPS will first ask the user for the ORGANIZATION NO. /PROJECT ID/TERMINAL SITE ID. The user must provide this information.

MIPS will acknowledge the above information with a request to SELECT NEW PRINT FILE OPTION. 1 - WRITE PRINT ON PAPER 2 - WRITE PRINT ON FICHE. The user must select one of these options.

MIPS will acknowledge the print file option by giving the print file a number. The user will then give the command RUN PACTDB or RUN PACTS. The computer responds by moving to the next line on the CRT terminal. The user then types GO. MIPS will then bring in the PACTS module requested. The user must now use PACT commands to direct further computer operations.

To terminate MIPS, the user types <u>STOP</u> (Refer to Appendix K). This command terminates MIPS but leaves the terminal hooked up to the UNIVAC 1108 computer. To terminate the UNIVAC 1108 hookup, the user must use the UNIVAC 1108 commands. (Refer to Appendix J).

503 PACTS COMMANDS

The user calls up the PACT modules, PACTDB, PACTS, PACTED or PACTRG using the MIPS command RUN (selected module) and GO. The UNIVAC 1108 computer will bring the selected module to the CRT terminal and then PACTS commands must be used to

control operations of the computer. These commands are all tutorial (self explanatory) and are shown in Appendices C, E, G, and I. The command to terminate PACTDB, PACTS, PACTED or PACTRG is always option Ø on the main menu which returns the control of computer operations to MIPS.

504 PDP COMMANDS

PDP LOGON Procedures (Refer to Appendix L)

The user enters the following commands from a terminal:

>HEL [100, 1]/ SAIL

>RUN DP:MIPS

PDP LOGOFF Procedures (Refer to Appendix L)

The user enters the following command from a terminal:

MIPS > STOP

>BYE

PDP Programs (Refer to Appendix L)

The user may run the following programs from a terminal:

PEP PDP 11/70 MIPS

MIPS > RUN PEP

MIPS > GO

PDFP PDP 11/45

MCR > INS[15, 2] PDFP

MCR > FIX PDFP

MCR > RUN PDFP (\$)

MCR > UNF PDFP

MCR > REM PDFP

DECURITER COMMANDS

Mount/Dismount Disk PDP 11/70

> MOU DK_n: /OVR (n = 0 or 1 drive)

> DMO DK_n:

Install MIPS PDP 11/70

> Set /UIC = [100, 1]

> @ MIPSTASKS

Mount/Dismount Disk PDP 11/45

MCR > LOA DK

MCR > MOU DK: /OVR

MCR > DMO DK:

MCR > UNL DK

APPENDIX A

DEFINITIONS

APPENDIX A

List - Directed File - Files whose records contain identical lists of data. The corresponding data value in each list is the same parameter for every list in the file, e.g., event timeline.

Marshall Interactive Planning System (MIPS) - A computer program which facilitates the handling and execution of other computer programs.

Name-Directed File - Files which contain data that are associated with names, e.g., Training contains training requirements for Spacelab payload crewmen.

On/Off File - Files which are data oriented rather than retrieval oriented, e.g., crew activity.

Payload Crew Training Data Base (PACTDB) - A data base file for storage of Spacelab payload crew training requirements.

Payload Crew Training Report Generator (PACTRG) - A computer program which utilizes PACTS files to generate Spacelab payload crew training reports.

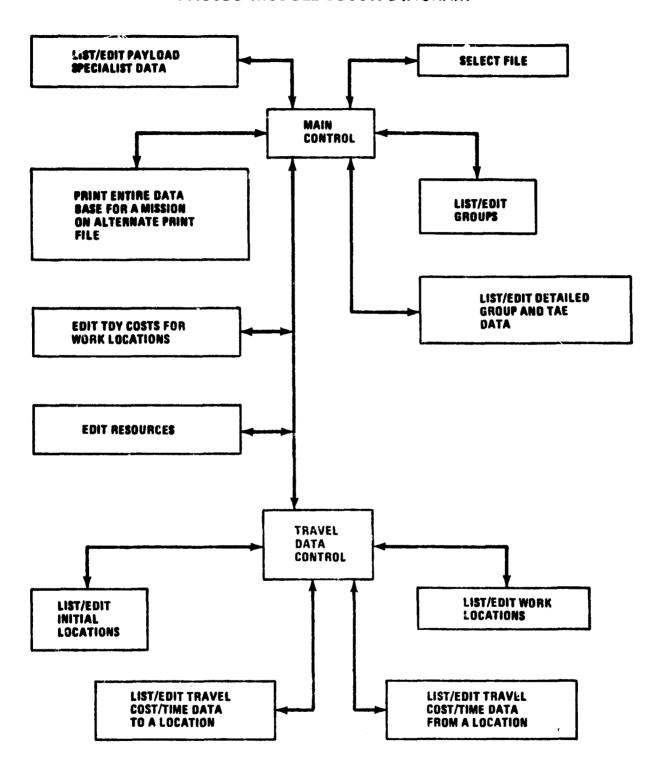
Payload Crew Training Scheduler (PACTS) - A computer program which utilizes PACTDB files to schedule Spacelab payload crew training.

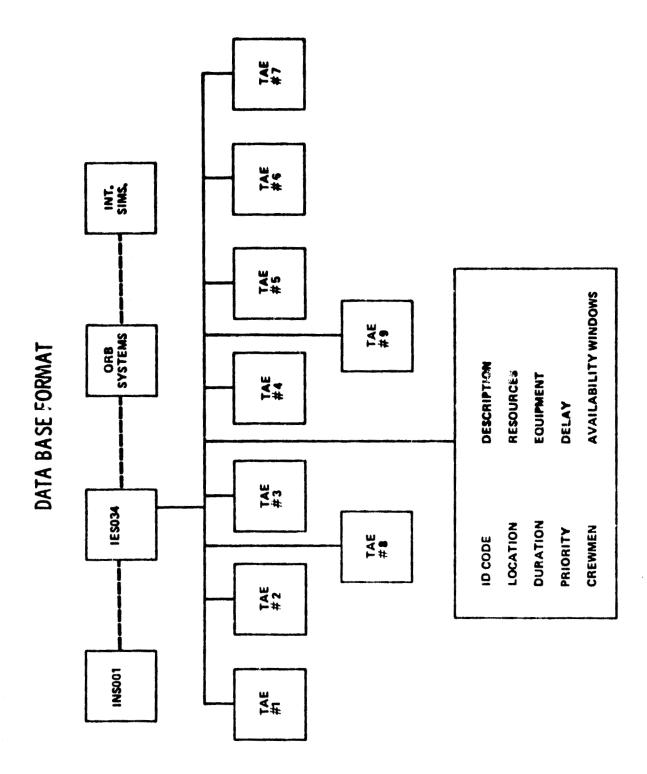
Task Activity Element (TAE) - The smallest identifiable activity in which the payload crew trains.

APPENDIX B

PACTDB MODULE BLOCK DIAGRAM AND COMPUTER CONFIGURATION

PACTDB MODULE BLOCK DIAGRAM





4.E

Computer Configuration

Language - Fortran

Core Requirement - 39.75K

Input Files: A PACT Data Base Name-directed File to input/edit data

APPENDIX C

PACTDB TUTORIAL DISPLAYS

PACTDB EXPLANATORY NOTES

| Page No. | Explanation |
|----------|---|
| C1 | Main Menu page. |
| C2 | Main menu page, Option 1, has been selected by the user. When the return key is hit, the page will turn. Note: An illegal number or no number will turn the page back to the main menu when the return key is hit. |
| C3 | User has specified a file labeled <u>TRAINING</u> . The computer has asked for a write key which the user must know to access the file. The write key is entered directly on the five ampersands (@@@@@) to prevent its divulgence to unauthorized viewers. If the key is correct, the page will turn when the return key is hit. Otherwise, the user will be asked to enter the correct key. |
| C4 | Main Menu, Option 2, has been selected by the user. When the return key is hit, the page will turn. |
| C5 | The user must specify a mission if different from the current mission shown. Note: There may be no current mission shown, in which case, the user must specify a mission. When the return key is hit, the page will turn. |
| C6 | The user can add, delete or edit TAE groups. The Insert New command will add a new TAE group after the last TAE group listed, e.g., Insert LST would add LST following SLSY53. The Insert New After Old command would add a new TAE group after the old TAE grouping. Insert LSS After INS003 would add LSS between INS002 and INS004. The Delete Old command will delete the TAE group specified, e.g., Delete 1ES027 would cause 1ES027 to be deleted. The Redraw command would be given to update the screen after all changes have been made, e.g., after adding and deleting TAE groups. |
| C6A | The Edit Old command allows the user to proceed to another page and change detail TAE data, e.g., EDIT 1NS005 calls up page C7. If the return key is hit with no entry, the page will turn to the Main Menu. |

When the return key is hit, the page will turn.

C7

Tutorial instructions for editing the selected TAE group.

| Page No. | Explanation | | |
|----------|---|--|--|
| C8 | Detailed TAE Group Data. When S is entered followed by hitting the return key, the page will turn to the Main Menu. | | |
| C9 | Main Menu Option 3 has been selected by the user. When the return key is hit, the page will turn. | | |
| C10 | User has specified a file labeled <u>TRAINING</u> . The computer has asked for a write key which the user must know to access the file. The write key is entered directly on the five ampersands (@@@@@) to prevent its divulgence to unauthorized viewers. If the key is correct, the page will turn when the return key is hit. Otherwise, the user will be asked to enter the correct key. Note: File and key specified only once. | | |
| C11 | The user must specify a mission if different from the current mission shown. Note: There may be no current mission shown in which case, the user must specify a mission. When the return key is hit, the page will turn. | | |
| C12 | User must select a TAE group to edit, e.g., 1NS005. When the return key is hit, the page will turn. | | |
| C13 | Tutorial instructions for editing the selected TAE Group. When the return key is hit, the page will turn. | | |
| C14 | Detailed TAE Group Data. When S is entered followed by hitting the return key, the page will turn to the Main Menu. | | |
| C15 | Main Menu Option 4 has been selected by the user. When the return key is hit, the page will turn. | | |
| C16 | Travel Menu Option 1 has been selected. When the return key is hit, the page will turn. | | |
| C17 | The user can add and delete initial locations. The commands are the same as Page C^6 . | | |
| C18 | Travel Menu, Option 2 has been selected by the user. When the return key is hit, the page will turn. | | |

Page No. Explanation The user can add and delete work locations. Commands are C19 the same as page C5. Travel Menu, Option 3 has been selected by the user. When **C20** the return key is hit, the page will turn. **C21** The user must specify a location, e.g., LA. When the return key is hit, the page will turn. **C22** The user can add time and cost data, e.g., Europe = 100 100 will add 100 in the cost column and 100 in the time column by Europe after the command Redraw is given. When the return key is hit with no entry, the page is turned to the Travel Menu. Travel Menu, Option 4 has been selected by the user. **C23** When the return key is hit, the page will turn. The user must specify a location, e.g., LA. When the C24 return key is hit, the page will turn. **C25** The user can add time and cost data, e.g., Europe = 100 100 will add 100 in the cost column and 100 in the time column by Europe after the command Redraw is given. When the return key is hit with no entry, the page is turned to the Travel Menu. Travel Menu, Option 0 has been selected. When the return **C26** key is hit, the main menu page will return. Main Menu, Option 5 has been selected by the user. When **C27** the return key is hit, the page will turn. The user must specify a mission if different from the C28 current mission shown. To add a payload specialist, the user types Insert New C29 e.g., Insert PS6 to add a location, the user types old = Initial Location Code, e.g., PS7 = DENVER. When the return key is hit with no entry, the page will turn to the

main menu.

| Page No. | Explanation |
|----------|---|
| C30 | Main Menu, Option 6 has been selected by the user. When the return key is hit the page will turn. |
| C31 | The user can assign TDY costs to one location by command LOCATION = COST e.g., EUROPE = 60 or to all locations by command ALL = COST e.g. ALL = 60. |
| C32 | Main Menu, Option 7 has been selected by the user. When the return key is hit the page will turn. |
| C33 | The user can add and delete resources using commands insert, insert after, and delete. |
| C34 | Main Menu, Option 8 has been selected by the user. When the return key is hit, the page will turn. |
| C35 | The user must specify a mission is different from the current mission shown. |
| C36 | The computer prints out the indicated information on the line printer. When the return key is hit with no entry, the page will turn to the main menu. |
| C37 | Main Menu, Option 0 has been selected by the user. When the return key is hit, the page will turn and PACTS will be terminated. The system will then be in the MIPS mode. |
| C38 | Standard UNIVAC 1108 Termination Procedures. |

- NOTE: 1. Tutorial Display Data in this appendix is SLI Mission Data.
 - 2. PACTDB can be called by standard UNIVAC 1108 and MIPS procedures as shown on the tutorial displays on pages 27 and 28; however, PACTDB can also be called up by using PACTS Main Menu Item 2 or PACTED Main Menu Item 7.

PORT 25/49 SIGNON - HOST1(2X0) UP HOST2(2X0) UP DTK051 ENTER USERID/PASSUORD: >PACTS/HCC

RUN NUMBER 12

LAST RUN AT: 070280 083555 DATE: 070280 TIME: 083933 >@MIPS.L

HAS BEEN ESTABLISHED NAMED MPS093645%P8F8. : (INSERT HELP FOR TUTORING) **65:41:52** MIPS INITIALIZATION IS IN PROGRESS

OFF-LINE MAINTENANCE PROCESSOR LAST RUN AT 06/25/79

TOTAL SUP TIME - 19.85 MIN
SELECT NEU PRINT FILE OPTION:
1 - URITE PRINT FILE ON FICHE
2 - URITE PRINT FILE ON FICHE INSERT COMMANDS : MIPS>RUN PACTOB MIPS>GO RIPS\1

08/24/78 10:02:24



PAYLOAD CREU TRAINING SCHEDULER DATA BASE (PACTDB)

- - TERMINATE
- 1 SPECIFY PACTS DATA BASE FILE
- 2 EDIT LIST OF TAE GROUPS
- 3 EDIT DETAILED TRAINING ACTIVITY ELEMENT (TAE) DATA
- 4 EDIT TRAVEL COST AND TRAVEL TIME DATA
- 5 EDIT PAYLOAD SPECIALIST DATA
- 6 EDIT TDY COST FOR WORK LOCATIONS
- 7 EDIT LIST OF RESOURCES
- 8 LIST PACTS INPUT DATA BASE MIPS>

08/24/78 10:02:24



PAYLOAD CREU TRAINING SCHEDULER DATA BASE (PACTDB)

- . TERMINATE
- 1 SPECIFY PACTS DATA BASE FILE
- 2 EDIT LIST OF TAE GROUPS
- 3 EDIT DETAILED TRAINING ACTIVITY ELEMENT (TAE) DATA
- 4 EDIT TRAVEL COST AND TRAVEL TIME DATA
- 5 EDIT PAYLOAD SPECIALIST DATA
- 6 EDIT TDY COST FOR WORK LOCATIONS
- 7 EDIT LIST OF RESOURCES
- 8 LIST PACTS INPUT DATA BASE

MIPS>1



PAYLOAD CREW TRAINING SCHEDULER DATA BASE (PACTDB)

- 0 TERMINATE
- 1 SPECIFY PACTS DATA BASE FILE
- 2 EDIT LIST OF TAE GROUPS
- 3 EDIT DETAILED TRAINING ACTIVITY ELEMENT (TAE) DATA
- 4 EDIT TRAVEL COST AND TRAVEL TIME DATA
- 5 EDIT PAYLOAD SPECIALIST DATA
- 6 EDIT TDY COST FOR WORK LOCATIONS
- ? EDIT LIST OF RESOURCES
- 8 LIST PACTS INPUT DATA BASE

MIPS>2

LIST OF THE GROUPS FOR MISSION FOLIMING COMMENS AND WILLS



LIST OF THE GROUPS FOR MISSION

FOLLOUING COMMANDS ARE UALED INSERT NEW AFTER OLD BELETE OLD REDRAN

ORIGINAL PAGE 12 OF POOR CHARLES

INSTRUCTIONS FOR EDITING A GROUP OF TAES

LOCATE CROSSHAIRS ON VALUE TO BE CHANGED, ENTER CONTROL CHARACTER AND RETURN KEY (IF CPOSSHAIR(S) APE NOT VISIBLE THEY MAY BE OFF SCREEN - TUPN THUMB WHEELS AND/OP PRESS RETURN KEY)
THE FOLLOWING CONTROL CHARACTERS ARE VALID, OTHERS WILL BE IGNORED

E - ENTER NEW VALUE OVERSTRIKING OLD VALUE

B - ENTER NEW VALUE AT BOTTOM OF SCREEN

O OR @ - ONIT ALL DATA FOR THIS ITEM

R - REDRAU ENTIRE SCREEN

S - RETURN TO PRECEEDING MENU

1.2...9 - REDRAU SCREEN STARTING WITH INDICATED TAE

A - ADD OR INSERT ANOTHER THE TO THIS GROUP

QUESTION 'UHICH TAE' UILL BE ASKED AND SCREEN WILL BE REDRAUM

D - DELETE A TAE (QUESTION 'WHICH TAE' WILL BE ASKED)

H - WILL REDISPLAY THIS PAGE

N - NEXT GROUP TO BE DISPLAYED

QUESTION 'UHICH GROUP TO BE DISPLAYED NEXT' WILL BE ASKED

NOTE: WHEN EDITING RESOURCES, EQUIPMENT, OR CREWMAN, THE ENTIRE

STRING MUST BE ENTERED SEPARATED BY SPACES

UHEN EDITING A DATE THE MONTH, DAY AND YEAR MUST

BE ENTERED (MM/DD/YY)

READ/COPY - THIS INPUT WILL NOT BE INTERPRETED MIPS>

38

| #IPS | 173 | | 222 | 222 | 222 | 222 |
|----------|-------------------------------|--|---|---|---|---|
| V | DATE S | • | INDOUS | INDOUS | SADONI | 1110001 |
| 09:50:24 | | | DESCRIPTION: SCIENCE, HOUNGE, & PROCEDURES THE ID: SHAP AMILABILITY WINDOWS 3/1/79 TO 12/1/79 TO TO | E THG(1) AMILABILITY WINDOWS TO 6/1/30 TO | E THG(2) AMELABILITY WINDOWS TO \$730/80 TO | AMILABILITY UINGOUS TO 12/2/20 To |
| 06/25/79 | i | 5555 | 3/1/79 | DS INTERFACE 2/1/30 | DS INTENENCE | 05 NETHEBOER 7/1/80 |
| 99 | EXP | ITINE CROUP | DESCRIPTION: STAFF | DESCRIPTION: DDS INTERFACE TNG(1) TAE ID : DDS1 2/1/34 TO 6/1/10 TO TO | DESCRIPTION: DDS INTENFACE TNG(2) TAE IB : BBS2 3/1/86 TO 5/36 TO TO | DESCRIPTION: BOS NEPRESOER TWAINING THE IB: BOS3 7/1/80 TO 12/2/4 TO 16 |
| | TYPE E | UINDOWS FOR ENTINE CROUP TO TO TO | a F | a F | m | • |
| | æ | MOIDNECE U | MER | 2 E | 5 E | 5-2 |
| | 1965 (SL1 | One . | | EPERT (TAE) NU DELAY (DY): RESOURCES: EQUIPMENT: LL | CLEMENT (TAE) NUMBER CLEMENT (DV):10 RESOUNCES: RETS H EQUIPMENT: ALL | ILEDENT (TAE) NUMBER C BELAY (PY): 0 RESOURCES! RETS H EGUIPPENT: ALL |
| | GROUP ID 145005 MERCHPION: | 9499 | TRAINING ACTIVITY ELEMENT (TAI LICATION CODE: SF DELAY BLUMTION (HES) 129 RESOUR PRIORITY (H,H,L) H EQUIPM PAYLOND CHEJPHN: ALL | TRAINTING ACTIVITY ELEMENT (TA LOCATION COSE : MSFC DELAY BURNITON (HRS) : 8 RESOUR PRICORD CHELMAN: ALL | TEACHTING ACTIVITY ELEMENT (TA LUCATION CODE INSTE BELAY PRIGETY (N.R.L.) H EQUIPM PAYLAGO CREUMON ALL | THAIRDING ACTIVITY ELEMENT (THE LOCATION COSE : MSFC MELLAY (MINEL) :4 NEEDLING PRICETY (N.R.L.) N EQUIPME PHYLOSE CHELENEN ALL |



(PACTOB) PAYLOAD CREU TRAINING SCHEDULER DATA BASE

TERMINATE

SPECIFY PACTS DATA BASE EDIT LIST OF TAE GROUPS

DETAILED TRAINING ACTIVITY ELEMENT (TAE) DATA EDIT

TRAVEL COST AND TRAVEL TIME DATA PAYLOAD SPECIALIST DATA

EDIT

TDY COST FOR WORK LOCATIONS LIST OF RESOURCES

PACTS INPUT DATA BASE

MIPSYNO

DO YOU WISH TO CHANGE MISSION ID

SPECIFY FILE MARE OF PACTS DATA BASE FILE CURRENTLY MIPS) TRAINING LAST URITE 03/29/78 1 UMAT IS URITE KEY FOR FILE TRAINING RIPS) #80000

24x OF USABLE SPACE

11:38:12

Carly to Carly to

SPECIFY GROUP OF TAE'S TO BE EDITTED - CURRENTLY ENTER RETURN TO RETURN TO MAIN MENU MIPS>

INSTRUCTIONS FOR EDITING A GROUP OF

THE FOLLOWING CONTROL CHARACTERS ARE UALID, OTHERS **WEASTRIKING** CHANGED. LOCATE CROSSHAIRS ON VALUE TO BE C IF COMMENS REE ME VISIDLE THEY MAY BE WET enter meu weld enter meu welde

ONIT ALL KEDRAL

TO PRECEEDING RETURN

ANOTHER KERT

Redisplay

WHICH GROUP TO BE DI aroup to be displayed

06/25/79 09:53:18

| 713 | | 255 | 555 | 555 | 222 |
|-------------------------|--|---|---|--|---|
| E DATE | ♥ | STOOMIN | PINDORS | uimdous | u i modus |
| EFFECTIVE BATE 5/1/78 | NUMBER OF THE'S | RE, B PROCEDUMES AUMICABILITY WINDOWS TO 12/1/79 TO | E TMG(1) AVAILABILITY WINDOWS TO 6/1/80 TO | E THG(2) AUNICABILITY WINDOWS TO \$730/80 TO | R TRAINING AUNICOUS AUNICOUS TO 12/3/30 TO 10 |
| | 5555 | 3/1/39 | 1 INTERFAC 2/1/80 | INTERFAC | 7/1/80 |
| Exp | WINDOWS FOR ENTIRE GROUP TO TO TO | DESCRIPTION: SCIENCE, NOWARE, B. PROCEDURES THE ID : SHLP 3/1/79 TO 12/1/79 TO TO TO | DESCRIPTION: DDS INTERFACE TWG(1) TAE ID : DDS1 2/1/80 TO 6/1/1 TO TO | DESCRIPTION: DDS INTERFACE TYC(2) TAE ID : DDS2 3/1/80 TO 5/30 TO TO | DESCRIPTION: DDS REFRESHER TRAINING THE ID : DDS3 7/1/88 TO 12/3/8 TO TO |
| PYPE | WINDOWS FOR TO TO TO | ud. | N | m | • |
| GROUP ID INSOAS (SL1) | TO T | TRAINING ACTIVITY ELEPENT (TAE) HARBER LOCATION CODE 1SF DELAY (DY): BURATION (NRS) 120 RESOURCES: PRIORITY (H,N,L) H EQUIPMENT: FLYBU PWYLORD CREUMEN: ALL | THAINING ACTIVITY ELEMENT (TAE) HUMBER LOCATION CODE : PSFC DELAY (DY): BLHATION (HES) :8 RESOURCES: PETS PRIORITY (H.M.L.) N EQUIPMENT: PAYLORD CREUMAN: ALL | TRAINING ACTIVITY ELEMENT (TAE) MUNDER LOCATION CODE : MOFC DELAY (BY):19 70 DURATION (HGS):8 RESOURCES: METS PRIORITY (H,M,L) N EQUIPMENT: PAYLOAD CREMENT: ALL | THAINCHE ACTIVITY ELEMENT (TAE) MUMBER LOCATION CODE (NGFC DELAY (DY): 0 BUNATION (HRS):4 RESOURCES: NETS PRIORITY (H,H.) H EQUIPMENT: PAYLOND CHEUPAN: ALL |

C PACTUR PAYLOAD CREW TRAINING SCHEDULER DATA BASE

TERRINATIN

SPECIFY PACTS DATA BASE FILE EDIT LIST OF TAE GROUPS

DETAILED TRAINING ACTIVITY ELEMENT (TAE) DATA TRAVEL COST AND TRAVEL TIME DATA PAYLOAD SPECIALIST DATA TDY COST FOR WORK LOCATIONS LIST OF RESOURCES

PACTS INPUT DATA BASE 500

おいひらいる

•

TRAVEL COST AND TRAVEL TIME DATA

B - RETURN TO MAIN CONTROL
- EDIT LIST OF INITIAL LOCATIONS
- EDIT LIST OF WORK LOCATIONS
- EDIT TRAVEL COST/TIME DATA TO A PARTICULAR LOCATION
- EDIT TRAVEL COST/TIME DATA FROM A PARTICULAR LOCATION

MIPS)1



LIST OF INITIAL LOCATIONS

FOLLCLING COFFMENTS ARE VALID INSERT NEU AFTER OLD DELETE OLD REDRAJ

> ELECOTE BOSTON JSC NIPS) INSERT KSC RIPS) INSERT RFSC AFTER JSC RIPS) RELETE KFSC RIPS) RELETE RFSC RIPS)

The State of the S

TRAVEL COST AND TRAVEL TIME DATA

PARTICULAR LOCATION INITIAL LOCATIONS WORK LOCATIONS MAIN CONTROL 5 return to 12. 12. 12.

A PARTICULAR LOCATION COST/TIME DATA TO A TRAVEL FRAUEL FOIL HOU

MIPS>2



LIST OF WORK LOCATIONS

FOLLOWING COMMANDS ARE UNLID INSERT NEW INSERT NEW AFTER OLD DELETE OLD REDRAW

artijs SF

KSC THICH PISEC CAMADA PHILAN JAPAN PORZ PARIS FLANICH FRANK LONDON ORLEAN TOULOU BREIVEN LINEAU HIPS)

TRAUEL COST AND TRAUEL TIME DATA

RETURN TO MAIN CONTROL

A PARTICULAR LOCATION LIST OF INITIAL LOCATIONS LIST OF WORK LOCATIONS TRAVEL COST/TIME DATA TO A PARTICULAR LOCATION COST/TIME DATA FROM TRAUEL FOU FORT

MIPS>3

TRAVEL COSTATINE DATA TO

EDIT UIA LOCATION - COST TIME ENTER MEDRAL TO REDROM

FIG.

2003

W.Li

HIPS

TRAVEL COST AND TRAVEL TIME DATA

- RETURN TO MAIN CONTROL - EDIT LIST OF INITIAL LOCATIONS - EDIT LIST OF WORK LOCATIONS - EDIT TRAVEL COST/TIME DATA TO A PARTICULAR LOCATION - EDIT TRAVEL COST/TIME DATA FROM A PARTICULAR LOCATION MIPS>4 SPECIFY LOCATION FOR UHICH TRAVEL COST/TIME DATA IS TO BE EDITTED CURRENTLY LA MIPS)

ORIGINAL PAGE IS

ENTER REDRESS TO REDRING TO COST TIME TO REDRING TO COST

TIME

5

C05

71RE

56

RIPS

TRAVEL COST AND TRAVEL TIME DATA

- RETURN TO MAIN CONTROL EDIT LIST OF INITIAL L
- LIST OF INITIAL LOCATIONS LIST OF WORK LOCATIONS
- TRAVEL COST/TIME DATA TO A PARTICULAR LOCATION TRAVEL COST/TIME DATA FROM A PARTICULAR LOCATION



(PACTUB PAYLOAD CREW TRAINING SCHEDULER DATA BASE

TERRINATE

SPECIFY PACTS DATA BASE **∞** → 00 m v v v v v v v v

EDIT LIST OF TAE GROUPS

EDIT DETAILED TRAINING ACTIVITY ELEMENT (TAE) DATA

EDIT TRAVEL COST AND TRAVEL TIME DATA

EDIT PAYLOAD SPECIALIST DATA

EDIT TBY COST FOR WORK LOCATIONS

EDIT LIST OF RESOURCES

PACTS INPUT DATA BASE

MIPS

OF POSE OF ME



LIST OF PAYLOAD SPECIALIST FOR MISSION SLI

FOLLOWING COMPANDS AND UALID
INSERT NEW AFTER OLD
DELETE OLD
REDROW
OLD - INITIAL LOCATION CODE

ID HORE 1D

HOME

JSC HS1

JSC HS2 EUROPE EUROPE BOSTON C) p51 PSS PS3 P54

MIPS>

EUROPE

PSS



(PACTOB) PAYLOAD CREW TRAINING SCHEDULER DATA BASE

TERRINATE

SPECIFY PACTS DATA BASE FILE EDIT LIST OF TAE GROUPS

DETAILED TRAINING ACTIUITY ELEMENT (TAE) DATA RAUEL COST AND TRAUEL TIME DATA

PAYLOAD SPECIALIST DATA

DY COST FOR WORK LOCATIONS IST OF RESOURCES

PACTS INPUT DATA BASE

HIPS>6

61



TDY COST FOR BORK LOCATIONS

FOLLOWING CONTINUES ARE UNLID LOCATION - COST ALL - COST REDRAW

LOCATION

TOY COST

LOCATION

TDV COST

LOCATION

1200 VOT

MIPS:



(PACTUB) PAYLOAD CREU TRAINING SCHEDULER DATA BASE

TERMINATE

SPECIFY PACTS DATA BASE FILE EDIT LIST OF TAE GROUPS

(TAE) DATA DETAILED TRAINING ACTIVITY ELEMENT EDIT FOIT

PRAUEL COST AND TRAUEL TIME DATA

PAYLOAD SPECIALIST DATA

DY COST FOR WORK LOCATIONS IST OF RESOURCES

PACTS INPUT DATA BASE

HIPS>7

06/25/79 10:04:34



LIST OF RESOURCES

FOLLOWING COMMANDS ARE VALID
INSERT HEW
INSERT HEW AFTER OLD
DELETE OLD
REDRAW

METS CLROOM ALTRN IVFAC SLR/U KC135 SLED

MIPS>



(PACTOB) PAYLOAD CREW TRAINING SCHEDULER DATA BASE

TERMINATE

SPECIFY PACTS DATA BASE FILE EDIT LIST OF TAE GROUPS

DETAILED TRAINING ACTIVITY ELEMENT (TAE) DATA

TRAVEL COST AND TRAVEL TIME DATA

PAYLOAD SPECIALIST DATA EDI.

TBY COST FOR WORK LOCATIONS LIST OF RESOURCES EDI

PACTS INPUT DATA BASE EDI.

SL1

- CURRENTE

<u>...</u> (0)

Specify Mission

LIST OF TAE GROUPS FINISHED GROUP AND TAE DATA FINISHED

INITIAL LOCATIONS FINISHED WORK LOCATIONS FINISHED

PAYLOAD SPECIALIST FINISHED TDY LIST COMPLETE RESOURCES LIST COMPLETE LIST OF PACT DATA BASE COMPLETE

READ/COPY - THIS INPUT WILL NOT BE INTERPRETED MIPS>



(PACTDB) PAYLOAD CREU TRAINING SCHEDULER DATA BASE

TERMINATE

SPECIFY PACTS DATA BASE FILE EDIT LIST OF TAE GROUPS

DETAILED TRAINING ACTIUITY ELEMENT (TAE) DATA

TRAUEL COST AND TRAUEL TIME DATA PAYLOAD SPECIALIST DATA TDY COST FOR WORK LOCATIONS EDIT

EDIT

PACTS INPUT DATA BASE LIST OF RESOURCES LIST EDIT

MIPS>0

TOTAL SUP TIME = 1.58 MIN
IS THE SURRENT PRINT FILE TO BE TRANSMITTED?

17.7

OPTION: **RIPS>YES**

ON PAPER ON FICHE FILE PRINT PRINT SELECT NEU - URITE

FILE PRINT - URITE MIPS>1

MPS1006294PSFS. FOR TUTORING) A PRINT FILE HAS BEEN ESTABLISHED NAMED ERT COMMANDS : (INSERT HELP FOR TO INSERT COMMANDS

MIPS>STOP

MIPS IS EXITING

PRINT FILES WILL BE DELETED IF NOT TRANSMITTED

IS THE CURRENT PRINT FILE TO BE TRANSMITTED?

CPU TIME: MIPS>YES NORMAL EXIT.

(MILLISECON

14885

TOTAL SUPS:

DS)STOP: MIPS

PROJECT: JACKIEBIN207 ACCT: 1HEL12493200 STOP: MIPS RUNID: ELPACT

1/0: 60:00:35.924 UAIT: 00:15:42.083 930937005 **CBSUPS:** 80:01:47.014

SUPS

00:00:11.721 00:00:59.368 CC/ER: CPU: READ:

> IMAGES START:

18167129 JUN 25,1979 FIN PAGES: 09:40:37 JUN 25,1979

aasg,? Filemane, uys, neelu SERVO THAT HAPPENS TO BE ALL MASG CARDS THAT NOW USE USS INNEDIATELY. CHANGE TO TECHNENT TYPE YOU UILL GET ANY TYPE FOURTHERT TYPES SHOULD BE CHANGED TO EXAMPLE: \$450,7 FILENAME, T, REELING

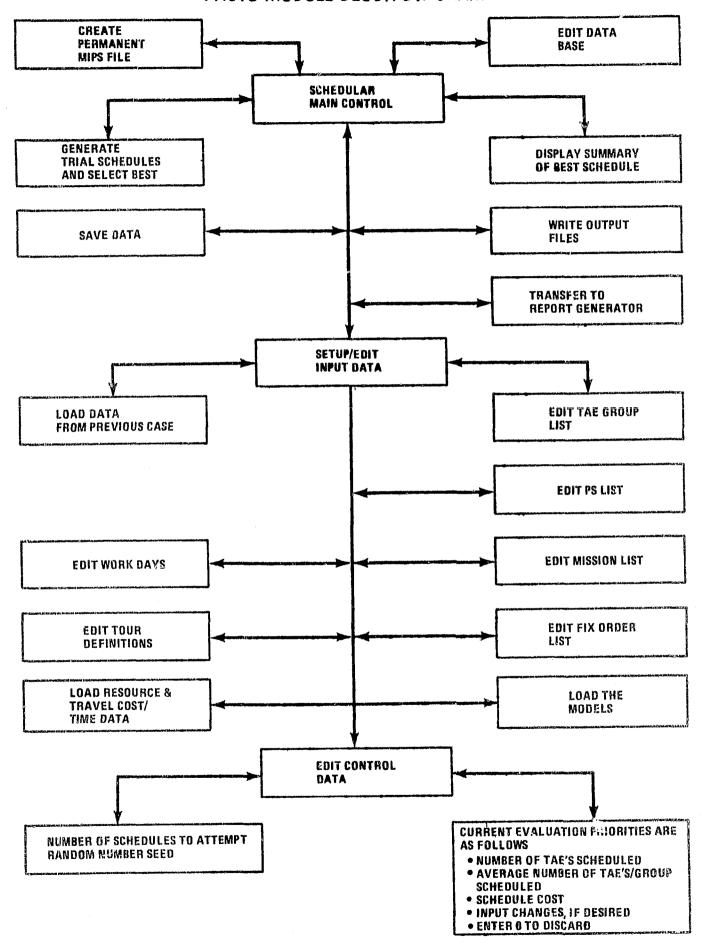
STERMINAL INACTIVES VETERM

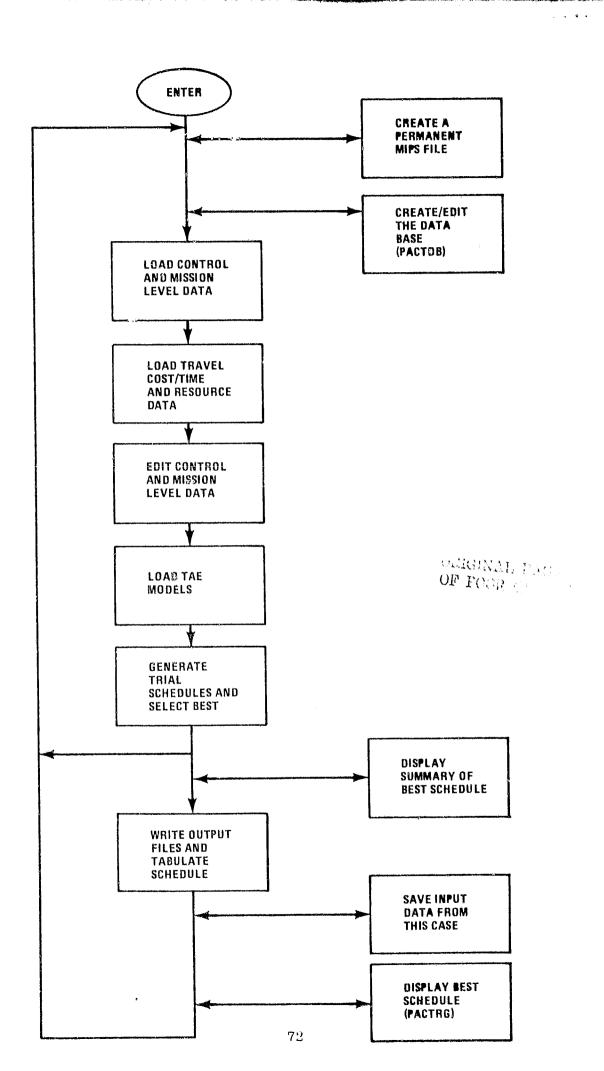
69

APPENDIX D

PACTS MODULE BLOCK DIAGRAM AND COMPUTER CONFIGURATION

PACTS MODULE BLOCK DIAGRAM





Computer Configuration

Language: FORTRAN

Core Requirement = 33.27K

Input Files: Name-Directed File (NDF) which contains mission dependent

data and TAE models.

Output Files: List Directed Files (LDF) which contains schedule time,

resource, and travel cost/time data.

ON/OFF file contains Crew activities.

APPENDIX E
PACTS TUTORIAL DISPLAYS

PACTS EXPLANATORY NOTES

| Page No. | Explanation |
|-------------|---|
| E1 | Main Menu page |
| E2 | Main Menu, Option 1, has been selected by the user. When the return key is hit, the page will turn. Note: Options 4, 5, and 6 are not available. |
| E3 | Name-directed, list-directed, or ON-OFF files can be created by the user, e.g., PACTS-LD is a list directed file. |
| E4(A, B, C) | Name-directed, list-directed, or ON-OFF files can be created by the user, e.g., PACTS-OF-1 is an ON/OFF file. |
| E5 | Main Menu, Option 2, has been selected by the user. Note: Options 4, 5, and 6 are not available. |
| E6 | The PACTDB menu is available to the user. Note: For use of this menu, refer to Appendix C. PACTDB menu, Option \emptyset , has been selected by the user which return the user to the PACTS menu. |
| E7 | Main Menu, Option 3, has been selected by the user. Note: At this point options 4, 5, and 6 are not available. |
| E8 | The SETUP/EDIT INPUT DATA Menu is available to the user. |
| E9 | Setup Menu, Option 1, has been selected by the user. |
| E10 | A file name and case number must be supplied by the user, e.g., PACTS-SCHED, Case 11. |
| E11 | Setup Menu, Option 2, has been selected by the user. |
| E12 | A file for reading travel/cost and resource data must be specified by the user, e.g., TRAINING. |
| E13 | Setup Menu, Option 3, has been selected by the user. |
| E14 | The number of schedules to run and random seed must be specified by the user, e.g., 1 1. |
| E15 | The evaluation criteria must be specified by the user, e.g., 1 2 3. |
| E16 | Setup Menu, Option 4, has been selected by the user. |

| Page No. | Explanation |
|----------|--|
| E17 | The user may insert or delete tours and assign starting and ending dates for a tour, e.g., DELETE, INSERT, and = 7/1/78 8/1/79 |
| E18 | Setup Menu, Option 5, has been selected by the user. (Not available). |
| 1719 | Setup Menu, Option 6, has been selected by the user. |
| 1520 | The user may specify that mission data be loaded from a PACTDB file, e.g., TRAINING. |
| E21 | Setup Menu, Option 7, has been selected by the user. |
| E22 | The user must specify the mission, e.g., SL1. |
| E23 | The user may insert, delete, or assign locations to the Payload Specialists, e.g., INSERT PS7, DELETE PS7, PS7 = KOKO. |
| E24 | Setup Menu, Option 8, has been selected by the user. |
| E25 | The user may insert or delete TAE groups, e.g., INSERT HS7, INSERT HS8 AFTER MEU, DELETE HS7, DELETE HS8. |
| E26 | Setup Menu, Option 9, has been selected by the user. |
| E27 | The user may insert or delete TAE groups into the fixed order scheduling list, e.g., insert 1NS001. |
| E28 | Setup Menu, Option 10, has been selected by the user. |
| E29 | The PACTDB file containing the TAE models must be specified, e.g., TRAINING. |
| E30 | Setup Menu, Option Ø, has been selected. |
| E31 | Main Menu, Option 4, is now ready and has been selected. Note: Options 5 and 6 are still unavailable. |
| E32 | PACT is generating schedule. |

| Page No. | Explanation |
|----------|--|
| E33 | Main Menu, Option 5, has been selected by the user. Note: Options 5 and 6 are ready. |
| E34 | PACTS prints out the schedule summary. |
| E35 | Main Menu, Option 6, has been selected by the user. |
| E36 | The user must specify the LDF and ON/OFF files, e.g., PACTLD and PACTOF. |
| E37 | Main Menu, Option 7, has been selected by the user. The user has an option to write the files and go to the Report Generator by answering YES or to go directly to the Report Generator by answering NO. |
| E38 | PACTRG Main Menu, Option Ø, returns user to PACTS. |
| E39 | Main Menu, Option 8, has been selected by the user. |
| E40 | The file for writing the data must be specified by the user e.g., TRAINING, CASE 11. |
| E41 | Main Menu, Option Ø, has been selected by the user which puts the user back into the MIPS system. |
| E42 | Standard UNIVAC 1108 Termination Procedures. |

- NOTE: 1. Tutorial Display Data in this Appendix is SLI Mission Data.
 - 2. PACTS can be called up by standard Univac procedures as shown on the tutorial on Pages 37 and 37A.

PORT 25/49 SIGNON - HOST1(2X0) UP HOST2(2X0) UP DTK051
ENTER USERID/PASSWORD:
>PACTS/HCC

RUN NUMBER 18

LAST RUN AT: 070280 083555

DATE: 070280 TIME: 083933

>emips,L

MPS1420101PSFS. 10:59:43 FIPS INITIALIZATION IS IN PROGRESS
OFF-LINE MAINTENANCE PROCESSOR LAST RUN AT 06/21/79
TOTAL SUP TIME = 1.77 MIN
SELECT NEU PRINT FILE OPTION:
1 - URITE PRINT FILE ON FAPER
2 - URITE PRINT FILE ON FICHE
MIPS>1 FOR TUTORING A PRINT FILE HAS BEEN ESTABLISHED NAMED INSERT COMMANDS : (INSERT HELP FOR TU MIPS>RUN PACTS MIPS>G0



PAYLOAD CREU SCHEDULER

TERMINATE

CREATE A PERMANENT MIPS FILE
TRANSFER TO DATA BASE EDITOR (PACTDB)
SETUP/EDIT INPUT DATA
GENERATE TRIAL SCHEDULES AND SELECT BEST
DISPLAY SUMMARY OF BEST SCHEDULE
TABULATE SCHEDULE AND URITE OUTPUT FILE
TRANSFER TO REPORT GENERATOR (PACTRG)
SAUE DATA FROM THIS CASE FOR FUTURE USE

OPTIONS 4, 5 AND 6 ARE NOT AUAILABLE

06/21/79 14:22:33



PAYLOAD CREU SCHEDULER

- . TERMINATE
- 1 CREATE A PERMANENT MIPS FILE
- 2 TRANSFER TO DATA BASE EDITOR (PACTDB)
- 3 SETUP/EDIT INPUT DATA
- 4 GENERATE TRIAL SCHEDULES AND SELECT BEST
- 5 DISPLAY SUMMARY OF BEST SCHEDULE
- 6 TABULATE SCHEDULE AND WRITE OUTPUT FILE
- 7 TRANSFER TO REPORT GENERATOR (PACTRG)
- 8 SAVE DATA FROM THIS CASE FOR FUTURE USE

OPTIONS 4, 5 AND 6 ARE NOT AVAILABLE MIPS>1

SPECIFY FORTRAN DISPLAY FORMAT FOR DATA - DEFAULT SPECIFY NAME OF PERSON RESPONSIBLE FOR THIS FILE DOES A DICTIONARY CURRENTLY EXIST FOR THIS FILE? SPECIFY A 66 CHARACTER DESCRIPTION OF THE FILE MIPS>PACTS OUTPUT FILE INE ENTRY OF A S SIGN WILL ABORT FILE CREATION WAS IS THE FILE TO BE CREATENS - DAYS? USE ; TO CONTINUE FORMAT ONTO NEXT CARD 72 CHARACTERS PER CARD, 4 CARDS MAXIMUM SPECIFY THE NUMBER OF HORDS PER RECORD HOU LONG IS THE FILE TO BE MAINTAINED RECORDS OF FILE BY MUNBER UP TO 12 CHARACTERS (A-Z, 8-9, SPECIFY A WRITE KEY IF DESIRED SPECIFY THE MAXIMUM NUMBER OF N SPECIFY A READ KEY IF DESIRED SPECIFY PMEMONIC FOR LORD SPECIFY INCHONIC FOR WORD MINEMOMIC FOR LOKE SPECIFY THE TYPE 1- NAME-DIRECTED - LIST-DIRECTED ((1X,1PSE14.6)) MIPS>PACT-LD-4 MIPS/SHIPHER 3- CM-OFF MIPS>5000 SPECIFY 11PS>12 4IPS>NO HIPS>A MASAIK MASAIK RIPS>2 1185>1 HIPS? 41PS>

SIGN WILL ABORT FILE CREATION WHAT IS THE MARE OF THE FILE TO BE CREATED?
UP TO 12 CHARACTERS (A-Z, 0-9, -)

MIPS>PACTS-OF-Z

SPECIFY THE TYPE OF FILE BY NUMBER
1- NAME-DIRECTED
2- LIST-DIRECTED
3- ON-OFF THE ENTRY OF A S

MIPS>3 SPECIFY THE MAXIMUM NUMBER OF RECORDS

MIPS>1000

SPECIFY A READ KEY IF DESIRED

MIPS

SPECIFY A URITE KEY IF DESIRED

SPECIFY NAME OF PERSON RESPONSIBLE FOR THIS FILE HOU LONG IS THE FILE TO BE MAINTAINED - DAYS? HIPSYDAUID SHIPMAN

HIPS>180

SPECIFY A 66 CHARACTER DESCRIPTION OF THE FILE

MIPS SOUTPUT FILE FOR SL1

83



PAYLOAD CREW SCHEDULER

CREATE A PERMANENT MIPS FILE TRANSFER TO DATA BASE EDITOR (PACTDB) SETUP/EDIT INPUT DATA TERMINATE

GENERATE TRIAL SCHEDULES AND SELECT BEST DISPLAY SUMMARY OF BEST SCHEDULE TABULATE SCHEDULE AND URITE OUTPUT FILE TRANSFER TO REPORT GENERATOR (PACTRG) SAUE DATA FROM THIS CASE FOR FUTURE USE

4, 5 AND 6 ARE NOT AUAILABLE OPTIONS

06/21/79 14:32:35



PAYLOAD CREW TRAINING SCHEDULER DATA BASE (PACTOB)

- 0 TERMINATE
- 1 SPECIFY PACTS DATA BASE FILE
- 2 EDIT LIST OF TAE GROUPS
- 3 EDIT DETAILED TRAINING ACTIVITY ELEMENT (TAE) DATA
- 4 EDIT TRAVEL COST AND TRAVEL TIME DATA
- 5 EDIT PAYLOAD SPECIALIST DATA
- 6 EDIT TDY COST FOR WORK LOCATIONS
- 7 EDIT LIST OF RESOURCES
- 8 LIST PACTS INPUT DATA BASE



PAYLOAD CREW SCHEDULER

TERMINATE

CREATE A PERMANENT MIPS FILE TRANSFER TO DATA BASE EDITOR (PACTDB) SETUP/EDIT INPUT DATA

GENERATE TRIAL SCHEDULES AND SELECT BEST DISPLAY SUMMARY OF BEST SCHEDULE TABULATE SCHEDULE AND URITE OUTPUT FILE TRANSFER TO REPORT GENERATOR (PACTRG) SAUE DATA FROM THIS CASE FOR FUTURE USE

OPTIONS 4, 5 AND 5 ARE NOT AUAILABLE RIPS>3



112m4507000

- RETURN TO MAIN CONTROL
- LOAD DATA FROM PREVIOUS CASE
- LOAD RESOURCE AND TRAVEL COST/TIME DATA
- EDIT CONTROL DATA
- EDIT TOUR DEFINITIONS
- EDIT HORK DAY DURATIONS
- EDIT LIST OF PAYLOAD SPECIALISTS
- EDIT LIST OF TAE GROUPS
- EDIT FIXED ORDER LIST
- LOAD TAE NODELS



RETURN TO MAIN CONTROL

1 1

1 1

LOAD DATA FROM PREVIOUS CASE

LOAD RESOURCE AND TRAVEL COST/TIME DATA

EDIT CONTROL DATA

EDIT TOUR DEFINITIONS

EDIT WORK DAY DURATIONS

EDIT WISSION LIST

EDIT LIST OF PAYLOAD SPECIALISTS

EDIT LIST OF TAE GROUPS

EDIT LIST OF TAE GROUPS

EDIT FIXED ORDER LIST

LOAD TAE MODELS

SPECIFY FILE NAME CONTAINING PACTS DATA MIPSYPACTS-SCHED ENTER CASE IDENTIFIER , 6 CHARA MIPSYCASE11

6 CHARACTERS MAX.

89

06/21/79 14:37:59



- 6 RETURN TO MAIN CONTROL
- 1 LOAD DATA FROM PREVIOUS CASE
- 2 LGAD RESOURCE AND TRAVEL COST/TIME DATA
- 3 EDIT CONTROL DATA
- 4 EDIT TOUR DEFINITIONS
- 5 EDIT WORK DAY DURATIONS
- 6 EDIT MISSION LIST
- 7 EDIT LIST OF PAYLOAD SPECIALISTS
- 8 EDIT LIST OF TAE GROUPS
- 9 EDIT FIXED ORDER LIST
- 18 LOAD TAE MODELS



SPECIFY FILE FOR READING "RAVEL/COST AND RESOURCE DATA HIPS)TRAINING TRAVEL COST/TIME AND RESOURCE DATA IS LOADED READ/COPY - THIS INPUT WILL NOT BE INTERPRETED MIPS)

OF POOR QUALITY



- RETURN TO MAIN CONTROL
- LOAD DATA FROM PREVIOUS CASE
- LOAD RESOURCE AND TRAVEL COST/TIME DATA
- EDIT CONTROL DATA
- EDIT TOUR DEFINITIONS
- EDIT WORK DAY DURATIONS
- EDIT WORK DAY DURATIONS
- EDIT LIST OF PAYLOAD SPECIALISTS
- EDIT LIST OF TAE GROUPS
- EDIT LIST OF TAE GROUPS

NUMBER OF SCHEDULES TO ATTEMPT RANDOM NUMBER SEED RIPS>1 85041

93

CURRENT EVALUATION PRIORITIES ARE AS FOLLOWS

NUMBER OF TAES SCHEDULED AVERAGE KUMBER OF TAES/GROUP SCHEDULED SCHEDULE COST

IMPUT CHANGES, IF DESTRED ENTER 0 TO DISCARD MIPS>1 2 3

A TONE OF THE PARTY.



LOUR QUALLTY

* - RETURN TO MAIN CONTROL

1 - LOAD DATA FROM PREVIOUS CASE

2 - LOAD RESCURCE AND TRAVEL COSTATIME DATA

3 - EDIT CONTROL DATA

4 - EDIT TOUR DEFINITIONS

5 - EDIT WORK DAY DURATIONS

6 - EDIT MISSION LIST

7 - EDIT LIST OF PAYLOAD SPECIALISTS

8 - EDIT LIST OF TAE GROUPS

9 - EDIT FIXED ORDER LIST



TOUR DEFINITIONS

THE FOLLOWING COMPANS ARE UNLIB INCERT TOUR ID DELETE TOUR ID TOUR ID STARTING DATE ENGING DATE REPRAN

| ENDING DATE | 12/8/78 7/26/79 12/22/79 6/27/86 3/31/79 9/28/79 1/9/86 5/17/86 7/7/88 8/14/38 |
|---------------|---|
| STARTING DATE | 1.0 / 0 / 1 / 0 / 0 / 0 / 0 / 0 / 0 / 0 / |
| TOUR | ESA1 ESA2 ESA3 ESA3 US2 US2 US3 US5 US5 US5 |

06/21/79 14:42:01



RETURN TO MAIN CONTROL LOAD DATA FROM PREVIOUS CASE CONTROL

RESOURCE AND TRAVEL COST/TIME DATA

CONTROL DATA COAD EDIT EDIT

TOUR DEFINITIONS HORK DAY DURATIONS MISSION LIST

LIST OF PAYLOAD SPECIALISTS LIST OF THE GROUPS FIXED ORDER LIST

TAE MODELS LOAD

HIPS>5

97

POON PAGE 18



RETURN TO MAIN CONTROL LOAD DATA FROM PREVIOUS CASE LOAD RESOURCE AND TRAVEL COST/TIME DATA

EDIT

T CONTROL DATA
T TOUR DEFINITIONS
T WORK DAY DURATIONS
T MISSION LIST
T LIST OF PAYLOAD SPECIALISTS
T LIST OF TAE GROUPS
T LIST ORDER LIST
T FIXED ORDER

LOAD

86/21/79 14:42:54

(r



CURRENT MISSIONS ARE:
ENTER WEU MISSION LIST, IF DESIRED
MIPS>SL1
DO YOU WANT TO LOAD MISSION LEVEL DATA FROM A PACTOB FILE'
SPECIFY FILE FOR LOADING MISSION LEVEL DATA
CURRENTLY:
MIPS>TRAINING
MISSION LEVEL DATA HAS BELN LOADED
READ/COPY - THIS IMPUT WILL NOT BE INTERPRETED
MIPS>

06/21/79 14:43:50



- - RETURN TO MAIN CONTROL
- 1 LOAD DATA FROM PREVIOUS CASE
- 2 LOAD RESOURCE AND TRAVEL COST/TIME DATA
- 3 EDIT CONTROL DATA
- 4 EDIT TOUR DEFINITIONS
- 5 EDIT WORK DAY DURATIONS
- 6 EDIT MISSION LIST
- 7 EDIT LIST OF PAYLOAD SPECIALISTS
- 8 EDIT LIST OF TAE GROUPS
- 9 EDIT FIXED ORDER LIST
- 10 LOAD TAE MODELS

SPECIFY MISSION (ENTER BLANK INAGE TO RETURN) MIPS>SL1

101

06/21/79 14:44:36



PAYLOAD SPECIALISTS FOR SLI

THE FOLLOWING COMMINDS RATE UNLID INSERT PAYLOAD SPECIALIST BELETE PAYLOAD SPECIALIST PAYLOAD SPECIALIST - LOCATION CODE REDRAY

| PAYLOAD SPECIALIST | LOCATION |
|--------------------|----------|
| PS1 | LA |
| PS2 | BOSTON |
| PS3 | EUROPE |
| PS4 | EUROPE |
| PS5 | EUROPE |
| MS1 | JSC |
| | JSC |
| MS2 | 330 |

06/21/79 14:45:17



- - RETURN TO MAIN CONTROL
- 1 LOAD DATA FROM PREVIOUS CASE
- 2 LOAD RESOURCE AND TRAVEL COST/TIME DATA
- 3 EDIT CONTROL DATA
- 4 EDIT TOUR DEFINITIONS
- 5 EDIT WORK DAY DURATIONS
- 6 EDIT MISSION LIST
- 7 EDIT LIST OF PAYLOAD SPECIALISTS
- 8 EDIT LIST OF TAE GROUPS
- 9 EDIT FIXED ORDER LIST
- 10 LOAD TAE MODELS

FOLLOWING COMPANDS AND UNLINGERT NEW AFTER OLD DELLETE OLD RELETE OLD RELETE OLD REDENU

SLSYSZ SLSYSZ SLSYSZ SEVIU WEVIU

STATE OF THE STATE



- RETURN TO MAIN CONTROL
 LOAD DATA FROM PREVIOUS CASE
 LOAD RESOURCE AND TRAVEL COST/TIME DATA
 EDIT CONTROL DATA
 EDIT TOUR DEFINITIONS
 EDIT WORK DAY DURATIONS
 EDIT HISSION LIST
 EDIT LIST OF PAYLOAD SPECIALISTS
 EDIT LIST OF TAE GROUPS
 EDIT FIXED ORDER LIST

FIXED ORDER THE GROUPS FOLLOWING COMMANS AND UNLID INSERT NEW ATER OLD BELETE OLD REDRAW

ORIENT LSI MIMIL 1E5300 MIPS>

106



- RETURN TO MAIN CONTROL
- LOAD DATA FROM PREVIOUS CASE
- LOAD RESOURCE AND TRAVEL COST/TIME DATA
- EDIT CONTROL DATA
- EDIT TOUR DEFINITIONS
- EDIT WORK DAY DURATIONS
- EDIT LIST OF PAYLOAD SPECIALISTS
- EDIT LIST OF PAYLOAD SPECIALISTS
- EDIT LIST OF TAE GROUPS
- EDIT FIXED ORDER LIST
- LOAD TAE MODELS



- RETURN TO MAIN CONTROL
- LOAD DATA FROM PREVIOUS CASE
- LOAD RESOURCE AND TRAVEL COST/TIME DATA
- EDIT CONTROL DATA
- EDIT TOUR DEFINITIONS
- EDIT WORK DAY DURATIONS
- EDIT HISSION LIST
- EDIT LIST OF PAYLOAD SPECIALISTS
- EDIT LIST OF TAE GROUPS
- EDIT FIXED ORDER LIST
- LOAD TAE MODELS -- 10 m 4 m m c − m m €



PAYLOAD CREW SCHEDULER

- 0 TERMINATE
- 1 CREATE A PERMANENT MIPS FILE
- 2 TRANSFER TO DATA BASE EDITOR (PACTDB)
- 3 SETUP/EDIT INPUT DATA
- 4 GENERATE TRIAL SCHEDULES AND SELECT BEST
- 5 DISPLAY SUMMARY OF BEST SCHEDULE
- 6 TABULATE SCHEDULE AND WRITE OUTPUT FILE
- 7 TRANSFER TO REPORT GENERATOR (PACTRG)
- 8 SAVE DATA FROM THIS CASE FOR FUTURE USE

OPTION 4 IS READY
OPTIONS 5 AND 6 ARE NOT AVAILABLE
MIPS>4







PAYLOAD CREW SCHEDULER

COST = \$ 138367.50 86841 SEED REST SCHEDULE

TERMINATE

CREATE A PERMANENT MIPS FILE TRANSFER TO DATA BASE EDITOR (PACTDB) SETUP/EDIT INPUT DATA

GENERATE TRIAL SCHEDULES AND SELECT BEST DISPLAY SURMARY OF BEST SCHEDULE TABULATE SCHEDULE AND URITE OUTPUT FILE TRANSFER TO REPORT GENERATOR (PACTRG) SAUE DATA FROM THIS CASE FOR FUTURE USE

OPTIONS 5 AND 6 ARE READY MIPS>5

| SCHEI | WLE: | 86941 MI | SSIONS | SL1 | | COST | 138367 | 7.5● |
|----------------------------------|------------------|------------------|--------------------------|----------|-------------------------------------|---------------------|-----------|-------|
| GROUP 1MGS01 1MGS02 | TAES 4 | SCHEDULED | FAILED | | GROUP FIED PHASE | TAES 6 7 6 | SCHEDULED | FAILE |
| 1M6803 1M5884 1M5885 | 4 7 2 4 | 7524 | 4 5 | | PHASE SLSYSI SLSYSS SLSYSI | - 4 | 6 | |
| 1 MAGGG 1 MAGGG | 3 | 3 | | | 2(2121) | 4 | 4 | |
| 1MT011 1MT012 1M6101 | 4 | 3 4 | 4 | | | | | |
| ING 182 ING 183 | 2 6 4 | 2 5 4 | 1 | | | | | |
| INS104 LE9013 LES014 | 8 4 | 8 3 | 2 | | | | | |
| E9015 1E9016 | 3 3 4 | 3 3 4 | | | | | | |
| E9017 E9019 | 3 | 3 4 | | | | | | |
| E2019 E5000 E5001 E5001 | 1 | 1 | | | | | | |
| ESOE3 ESOE4 ESOES | 3 3 1 | 3 3 1 | | | | | | |
| ESOES ESOE7 | į | į | | , di | | | | |
| E SHESS E SHESS | 1 1 | 1 | | | i.i. | | | |
| E9031 | <u>i</u> | i 3 | | | | | | |
| E9034 E9000 E5000 | 177787688 | 3 2 2 5 | 3 | 4 | | | | |
| ER300 PLAN EVIV | 3 | 3 | 1 3 2 5 2 3 4 5 | | | | | |
| Baint Si Rient | \$ | 1 | 3 4 5 | | | | | |
| HTS IN | 4 3 | i | | | | | | |
| POCE LIDEAL | 1 | 1 | | | | | | |
| 1196V | Š | Š | | | | | | |
| | 7 | 7 | | | | | | |
| PRI CO | Y - THI | s deut vill | NOT BE ZHT | EMPRETED | | | | |



PAYLOAD CREU SCHEDULER

COST = \$ 138367.50 86041 BEST SCHEDULE SEED

TERMINATE

CREATE A PERMANENT MIPS FILE TRANSFER TO DATA BASE EDITOR (PACTDB) SETUP/EDIT INPUT DATA

GENERATE TRIAL SCHEDULES AND SELECT BEST DISPLAY SUMMARY OF BEST SCHEDULE TABULATE SCHEDULE AND URITE OUTPUT FILE TRANSFER TO REPORT GENERATOR (PACTRG) SAVE DATA FROM THIS CASE FOR FUTURE USE

OPTIONS 5 AND 6 ARE READY MIPS>6 **₩**

SELECT PRINT AND FILE OPTIONS. DEFAULT PRINT OPTION

0. NO PRINT OUT
1. PRINT ON TIMES ONLY
2. PRINT ALL TIMES
DEFAULT FILE OPTION
0. NO FILE
1. URITE LDF FILE
2. URITE ON/OFF FILE
3. URITE BOTH

(T) #

ENTER CHANGES

SPECIFY FILE NAME FOR URITING THE FOLLOWING

CREW TRAINING TIMELINE (LDF) HIPS>PACTLD

PACTLD UHAT IS URITE KEY FOR FILE

HIPS>BB666

SPECIFY FILE NAME FOR URITING THE FOLLOWING (IF NAME INCLUDES \$ IT WILL BE TEMPORARY) SCHEDULE TIMELINE (ON/OFF)

999999999999

FILE MANE WILL DEFAULT TO **NIPS>PACTOF**

DO YOU WANT TO ADD MORE SUBJECTS TO EXISTING DATA FILE MIPSYNO

PACTOF WHAT IS URITE KEY FOR FILE

HIPS DESCRI



PAYLOAD CREW SCHEDULER

COST * \$ 138367.50 86641 BEST SCHEDULE SEED

TERNINATE

CREATE A PERMANENT MIPS FILE
TRANSFER TO DATA BASE EDITOR (PACTDB)
SETUP/EDIT INPUT DATA
GENERATE TRIAL SCHEDULES AND SELECT BEST
DISPLAY SUMMARY OF BEST SCHEDULE
TABULATE SCHEDULE AND URITE OUTPUT FILE
TRANSFER TO REPORT GENERATOR (PACTRG)
SAUE DATA FROM THIS CASE FOR FUTURE USE

PACTRG HAIN MENU

- TERMINATE
 DISPLAY USAGE INFORMATION (HELP)
 DISPLAY PLOTS ON TEXTRONIX AND TABLES ON TEXTRONIX AND PRINT FILE
 DISPLAY TABLES ON PRINT FILE
 NIPS>0



PAYLOAD CREW SCHEDULER

COST - \$ 138367.50 86641 BEST SCHEDULE SEED .

TERMINATE

ゆまごろよららて8

- CREATE A PERMANENT MIPS FILE
- TRANSFER TO DATA BASE EDITOR (PACTDB)
- SETUP/EDIT INPUT DATA
- GENERATE TRIAL SCHEDULES AND SELECT BEST
- DISPLAY SUMMARY OF BEST SCHEDULE
- TABULATE SCHEDULE AND URITE OUTPUT FILE
- TRANSFER TO REPORT GENERATOR (PACTRG)
- SAUE DATA FROM THIS CASE FOR FUTURE USE

, 6 CHARACTERS MAX. SPECIFY FILE NAME FOR URITING PACTS DATA MIPS>PACTS-SCHED ENTER CASE IDENTIFIER , 6 CHARAC MIPS>CASE11

119



PAYLOAD CREU SCHEDULER

COST = \$ 138367.50 86841 BEST SCHEDULE SEED

TERMINATE

CREATE A PERMANENT MIPS FILE TRANSFER TO DATA BASE EDITOR (PACTDB) SETUP/EDIT INPUT DATA

GENERATE TRIAL SCHEDULES AND SELECT BEST DISPLEY SUMMARY OF BEST SCHEDULE TABULATE SCHEDULE AND URITE OUTPUT FILE TRANSFER TO REPORT GENERATOR (PACTRG) SAUE DATA FROM THIS CASE FOR FUTURE USE

PROJECT: JACKIEBINZO7

14885 MPS100629xP8F8. TOTAL SUPS: FOR TUTORING) PRINT FILES UILL BE DELETED IF NOT TRANSMITTED TOTAL SUP TIME = 1.58 MIN
IS THE CURRENT PRINT FILE TO BE TRANSMITTED? IS THE CURRENT PRINT FILE TO BE TRANSMITTED? A PRINT FILE HAS BEEN ESTABLISHED NAMED 295 ON PAPER ON FICHE OPTION: INSERT COMMANDS : (INSERT CPU TIME: ECT NEU PRINT FILE
- URITE PRINT FILE
- URITE PRINT FILE MIPS IS EXITING SELECT NEW PRINT 1 - URITE PRINT NORMAL EXIT. DS)STOP: MIPS MIPS>STOP **MIPSYVES MIPSYVES** MIPS>1

À, ile. (MILLISECON

10:07:29 JUN 25,1979 SERUO THAT HAPPENS TO DE CBSUPS: 030037005 I/O: 00:00:35.924 UAIT: 00:15:42.083 FINE 33 ACCT: 1HEL12493200 PAGES: 09:40:37 JUN 25,1979 00:00:11.721 00:01:47.014 SUPS CC/ER: STOP: MIPS CPU: READ : RUNID: ELPACT INAGES START:

OASO, ? FILENAME, MOS, MEELM ALL BASG CARDS THAT NOW USE USS IMMEDIATELY. AUAILABLE, EX: U34, U36, 8C, OR 8C9. EQUIPMENT TYPES SHOULD BE CHANGED TO EXAMPLE: 0ASG,T FILENAME,T, REELNR

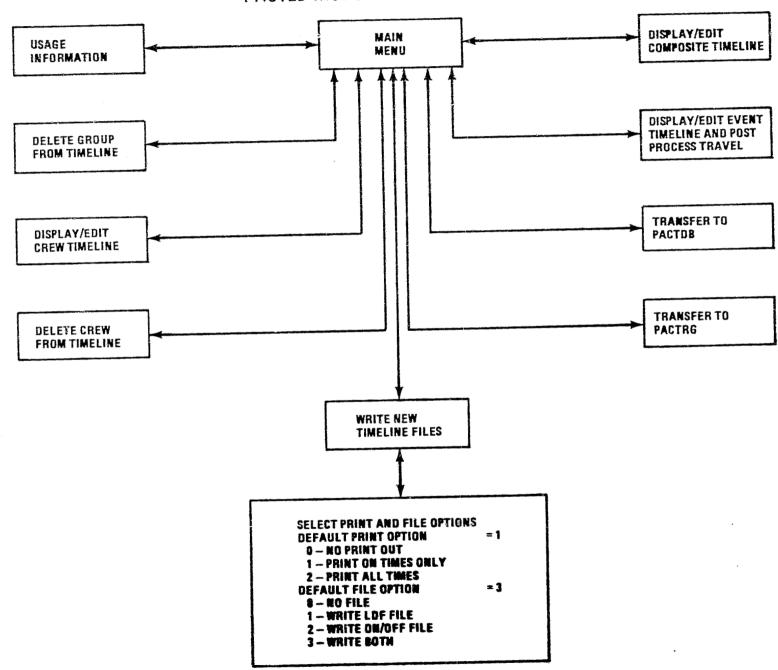
STERNING INACTIVES

> eetern

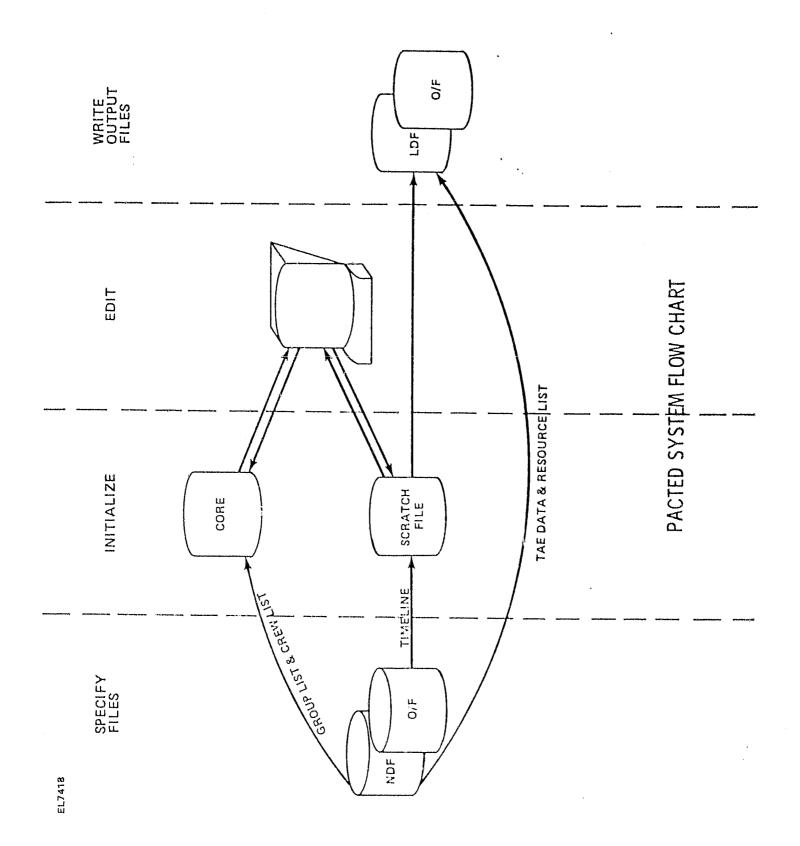
APPENDIX F

PACTED MODULE BLOCK DIAGRAM AND COMPUTER CONFIGURATION

PACTED MODULE BLOCK DIAGRAM



7.7



Computer Configuration

Language - FORTRAN

Core Requirement - 35.47K

Input Files: Name Directed File (NDF) which contains mission dependent

data and TAE Models. List Directed File (LDF) which

contains mission timeline status.

Output Files: List Directed File (LDF) which contains mission timeline

status. ON/OFF File which contains crew activities.

APPENDIX G

PACTED TUTORIAL DISPLAYS

PACTED EXPLANATORY NOTES

| Page No. | Explanation |
|----------|--|
| G1 | Main Menu Page |
| G2 | Main Menu Page, Option 1, has been selected by the user. When the return key is hit, the page will turn. Note: An illegal number or no number will turn the page back to the main menu when the return key is hit. |
| G3 | Editing Instructions for PACTED. |
| G4 | Main Menu Page, Option 2, has been selected by the user. When the return key is hit, the page will turn. |
| G5 | The user must specify a starting time if different from the one shown or if there is no starting time shown. When the return key is hit, the page will turn. |
| G6 | Upon completion of printing the composite timeline, the terminal will give in audible beep and the crosshairs will appear on the screen. The user may make changes to the page, call for the next page, time point or crewman or terminate the editing on this page. When the return key is hit, the page will turn. |
| G7 | Main Menu Page Option 3 has been selected by the user. When the return key is hit, the page will turn. |
| G8 | The user must specify a starting time if different from the one shown or if there is no starting time shown. When the return key is hit, the page will turn. |
| G9 | Upon completion of printing the event timeline, the terminal will give an audible—beep and the crosshairs will appear on the screen. The user may make changes to the page, call for the next page, time point or crewman, or terminate the editing on this page. When the return key is hit, the page will turn. |
| G10 | Main Menu Page, Option 4, has been selected by the user. When the return key is hit, the page will turn. |

- G11 The user must specify the TAE Group to be deleted from the timeline. When the return key is hit, the group will be deleted and the page will turn.
- Main Menu Page, Option 5, has been selected by the user. When the return key is hit, the page will turn.
- G13 The user must specify the crewman (crewmen) for which a timeline is to be displayed. When the return key is hit, the page will turn.
- The user must specify a starting time if different from the one shown or if there is no starting time shown. When the return key is hit, the page will turn.
- Upon completion of the printing of the composite timeline for the specified crewman, the terminal will give an audible beep and the crosshairs will appear on the screen. The user may make changes to the page, call for the next page, time point or crewman, or terminate the editing on this page. When the return key is hit, the page will turn.
- G16 Main Menu Page, Option 6 has been selected by the user. When the return key is hit, the page will turn.
- The use r must specify a start and end time for deletion if different from the time shown or if no times are shown.

 When the return key is hit, the terminal will prompt the user to specify the crewman to be selected. The user must then specify the crewman to be deleted. When the return key is hit the page will turn.
- Main Menu Page, Option 7, has been selected by the user.
 When the return key is hit, the terminal will transfer to
 PACTDB.
- Main Menu Page of PACTDB is on the screen. The user may exercise all options as described in Appendix C or select option Ø to return to the PACTED. When the return key is hit, the terminal will return to PACTED.
- G20 Main Menu Page, Option 8, has been selected by the user. When the return key is hit, the page will turn.

- The user must specify the file for writing the new training timeline. When the return key is hit, the terminal will prompt the user for a write key. If the proper write key is not supplied, the files will not be written. When the return key is hit, the terminal will prompt the user for an ON/OFF name. The user must supply a file name. When the return key is hit, the terminal will prompt the user to determine if more subjects are to be added to the file. The user must answer yes or no. When the return key is hit, the terminal will prompt the user for a write key for the ON/OFF file. If the proper write key is not provided, the file will not be written. When the return key is hit, the page will turn.
- G22 Main Menu Page, Option 9, has been selected by the user.
 When the return key is hit, the terminal will transfer to PACTRG.
- Main Menu Page of PACTRG is on the screen. The user may exercise all options as described in Appendix I or select Option Ø to return to the PACTED. When the return key is hit, the terminal will return to PACTED.
- G24 Main Menu Page, Option Ø, has been selected by the user. When the return key is hit, the terminal will return to the MIPS mode.
- G25 Standard UNIVAC 1108 Termination Procedure.
- NOTE: 1. Tutorial Display Data in this Appendix is SL1 Mission Data.
 - 2. PACTED can be called up using standard UNIVAC 1108 and MIPS procedures as shown on tutorials on Pages 46 and 47.
 - 3. File names must be specified prior to editing as shown on Page 48.

RUN NUMBER 11

LAST RUN AT: 070280 071857

DATE: 070280 TIME: 083554

>emips,L

13(

OF POOR QUALITY

MPS132054xP8F8. MIPS INITIALIZATION IS IN PROGRESS
OFF-LINE MAINTENANCE PROCESSOR LAST RUM AT 66/20/79
TOTAL SUP TIME . .65 MIN HAS BEEN ESTABLISHED NAMED MPS1: (INSERT HELP FOR TUTORING) ON PAPER ON FICHE PRINT FILE OPTION: PRINT FILE ON PAPE A PRINT FILE H
INSERT COMMANDS :
MIPS>RUN PACTED
MIPS>GO TOTAL SUP TIME SELECT NEU PRINT
1 - URITE PRINT
2 - URITE PRINT
NIPS>1 - URITE PRINT

PAYLOAD CREW TRAINING EDITOR (PACTED)

SPECIFY NAME OF PACTS NAME-DIRECTED FILE CURRENTLY MIPS>TRAINING

SPECIFY NAME OF LIST-DIRECTED FILE FOR TIMELINE INPUT DATA MIPS>PACTLD

96/29/79 13:28:16 (NIFE

PAYLOAD CREU TRAINING EDITOR (PACTED)

- . TERMINATE
- 1 DISPLAY USAGE INFORMATION
- 2 DISPLAY/EDIT COMPOSITE TIMELINE
- 3 DISPLAY/EDIT EVENT TIMELINE AND POST-PROCESS TRAVEL
- 4 DELETE GROUP FROM TIMELINE
- 5 DISPLAY/EDIT CREW TIMELINE
- 6 DELETE CREW FROM TIMELINE
- 7 TRANSFER TO PACT DATA BASE MODULE (PACTDS)
- 8 URITE NEW TIMELINE FILES
- 9 TRANSFER TO PACT REPORT GENERATOR (PACTRG)

13:26:16 87/88/38



(PACTED PAYLOAD CREW TRAINING EDITOR MAIN MENU

TERMINATE

DISPLAY USAGE INFORMATION

DISPLAY/EDIT COMPOSITE TIMELINE DISPLAY/EDIT EVENT TIMELINE AND POST-PROCESS TRAVEL DELETE GROUP FROM TIMELINE DISPLAY/EDIT CREW TIMELINE

TRANSFER TO PACT DATA BASE MODULE (PACTOB) URITE NEW TIMELINE FILES DELETE CREU FROM TIMELINE

TRANSFER TO PACT REPORT GENERATOR (PACTRG)

EDITING INSTRUCTIONS

LOCATE CROSSMAIRS ON VALUE TO BE EDITED, ENTER CORMAND CHARACTER, PRESS RETURN KEY.

EDITING COMMAND CHARACTERS ARE LISTED BELOW.

ENTER NEW VALUE, OVERSTRIKING OLD VALUE ENTER NEW VALUE IN BLANK AREA OF SCREEN ENTER NEU VALUE,

医多氏

ADD SPECIFIED TAE(S) TO A GROUP (MULTIPLE QUESTIONS WILL BE ASKED) DELETE SPECIFIED TAE (EVENT)

AR SIF

REDRAU SCREEN

STOP EDITING

SPECIFY TIME POINT FOR NEXT PAGE

CONTINUE, BEGINNING UITH NEXT TIME BEGIN PROCESSING ANOTHER CREUMAN £I

BIS

REDISPLAY THIS TUTORING (HELP)

READ/COPY - THIS INPUT UILL NOT BE INTERPRETED MIPS>

81182161 61/62/30



PAYLOAD CREU TRAINING EDITOR (PACTED RAIN REMU

TERMINATE

DISPLAY USAGE INFORMATION

EVENT TIMELINE AND POST-PROCESS TRAVEL DISPLAY/EDIT COMPOSITE TIMELINE AND ● → 己ろ 4 5 6 7 6 8 8

FROM TIMELINE

DELETE GROUP

DISPLAY/EDIT CREU TIMELINE
DELETE CREU FROM TIMELINE
TRANSFER TO PACT DATA BASE MODULE (PACTDB
URITE NEU TIMELINE FILES
TRANSFER TO PACT REPORT GENERATOR (PACTRG

SPECIFY STARTING TIME OF FIRST DISPLAY USE MAJDDAY FORMAT CURRENTLY: 8/1/78 MIPS>

The state of the s

| COFFEE E. B. B. B. R. S. T. C. M. N-4ELF | - | Name of Street | • |
|--|---|----------------|--------------------|
| H E. B. B. B. R. S. Y. C. N. W. | | | I |
| H E. B. B. B. R. S. Y. C. M. | | | |
| H E. B. B. B. R. S | | * | |
| 2 | | \$ 5° | |
| 2 | | B. R. | 10 (Carried 10) |
| 2 | | 8 | 200 |
| COMMO | | | |
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| Market Company | | | | | | | į. | 1 | Ĭ | Ž. | Ī | Ž | | | | | | | | | | | | | | | | | | | £ | ť | Į | Ei |
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| Table Street, or other Persons | | | | | | 1 | Ž | Š | Ž. | 2 | Į | į | • | | | | | | | | | | | | | | | | | | £ | Į | Į | El |
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| | 1 | | | | | | 7 | * | K | Ž | 8 | 1 | • | | | | | | | | | | | | | | | | | F | ľ | F | f | Ħ |
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| | 2 | 37 | 2 | 100 | | | 2 | | | | | 2 | Se | | 2 | ž | | Ę | 2 | ĩ | 2 | ĩ | 2 | P | ž | £ | ĩ | | | | | = | | |
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DISPLAY USAGE INFORMATION
DISPLAY/EDIT CORPOSITE TIMELINE
DISPLAY/EDIT EVENT TIMELINE AND POST-PROCESS TRAVEL
DELETE GROUP FROM TIMELINE
DELETE CREU FROM TIMELINE
TRAMSFER TO PACT DATA BASE MODULE (PACTOB)
URITE NEW TIMELINE FILES

TRANSFER TO PACT REPORT GENERATOR (PACTRG

#IPS>3

SPECIFY STARTING TIME OF FIRST DISPLAY USE MAIDD/YY FORMAT CURRENTLY : 8/1/78 HIPS>

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PACTED PAYLOAD CREG TRAINING EDITOR PAIN MENU

TERRINATE

DISPLAY USAGE INFORMATION

DISPLAY/EDIT COMPOSITE TIMELINE DISPLAY/EDIT EVENT TIMELINE AND POST-PROCESS TRAVEL DELETE GROUP FROM TIMELINE DISPLAY/EDIT CREU TIMELINE

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DELETE CREU FROM TIMELINE TRANSFER TO PACT DATA BASE MODULE (PACTDB URITE NEU TIMELINE FILES TRANSFER TO PACT REPORT GENERATOR (PACTRG

よこう ようら できり

HIPS>4

TALATY



SPECIFY GROUP TO BE DELETED ENTER BLANK INAGE TO RETURN TO MAIN MENU MIPS>



(PACTED PAYLOAD CREU TRAINING EDITOR HAIN MENU

TERMINATE

DISPLAY USAGE INFORMATION

CORPOSITE TIMELINE DISPLAY/EDIT

DISPLAY/EDIT EVENT TIMELINE AND POST-PROCESS TRAVEL DELETE GROUP FROM TIMELINE DISPLAY/EDIT CREU TIMELINE DELETE CREU FROM TIMELINE TRANSFER TO PACT DATA BASE MODULE (PACTOB) URITE NEW TIMELINE FILES

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06/29/79 13:37:19



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COTCOMOS! E.B.A.B.A.S.Y.C.M.N-HELP

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| 1E9916 | í | SADIS | Ċ | P082 | 18/9/78 | # ; | | 10/9/78 | 4 | 762 | 75 1 | 200 | P64 | 783 | 72 | 751 | |
| 1E9016 | 2 | 1 | | PORZ . | 19/19/78 | | | 19/19/78 | 4 | MSZ | M61 | P96 | P\$4 | PSJ | 798 | P\$1 | |
| 12001 | 1 | 1 | | PCRZ | 10/11/78 | | | 10/11/78 | 4 | M85 | 961 | P55 | P\$4 | P\$3 | 78 | P51 | |
| 1ETOE2 | 1 | 1 | | PORZ | 10/12/78 | | | 10/12/78 | 4 | 752 | 761 | PSE | P\$4 | P33 | P13 | P51 | |
| 1E9023 | 2 | 1 | | PORZ | 19/13/78 | | | 10/15/78 | 4 | MS2 | M61 | PSS | P\$4 | P\$3 | PRE | PSI | |
| 1 E500 4 | 1 | 1 | | PORZ | 18/16/78 | | | 18/18/78 | 4 | 762 | RS1 | P96 | P84 | P53 | 752 | P51 | |
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DISPLAY USAGE INFORMATION

DISPLAYZEDIT COMPOSITE TIMELINE DISPLAYZEDIT EVENT TIMELINE AND POST-PROCESS TRAVEL DELETE GROUP FROM TIMELINE DISPLAYZEDIT CREW TIMELINE

TRANSFER TO PACT DATA BASE MODULE (PACTDB DELETE CREU FROM TIMELINE

URITE NEU TIMELINE FILES

TRANSFER TO PACT REPORT GENERATOR (PACTRIS

ENTER START TIME AND END TIME FOR DELETION
USE HAYDD/YY MA/DD/YY FORMAT
USE HAYDD/YY MA/DD/YY FORMAT
CURRENTLY START = 7/1/78 END = 1/1/85
RIPS>
SPECIFY CREUMAN(HEN) TO DELETE FOR SPECIFIED TIME
ENTER BLANK IMAGE TO RETURN TO MAIN MENU
ENTER ALL' TO DELETE ALL CREUMAN FOR TIME FRAME
RIPS>

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(PACTED PAYLOAD CREW TRAINING EDITOR PATE MEN

TERMINATE

DISPLAY USAGE INFORMATION

DISPLAY/EDIT COMPOSITE TIMELINE
DISPLAY/EDIT EVENT TIMELINE AND POST-PROCESS TRAVEL
DELETE GROUP FROM TIMELINE
DISPLAY/EDIT CREW TIMELINE
DELETE CREW FROM TIMELINE
TRANSFER TO PACT DATA BASE MODULE (PACTDM)
URITE NEW TIMELINE FILES
TRANSFER TO PACT REPORT GENERATOR (PACTRG)

06/21/79 13:30:11



(PACTDS) PAYLOAD CREU TRAINING SCHEDULER DATA BASE

TERMINATE SPECIFY PACTS DATA BASE FILE EDIT LIST OF TAE GROUPS

EDIT

DETAILED TRAINING ACTIUITY ELEMENT (TAE) DATA TRAVEL COST AND TRAVEL TIME DATA PAYLOAD SPECIALIST DATA TDY COST FOR WORK LOCATIONS LIST OF RESOURCES PACTS INPUT DATA BASE EDIT EDIT

EDIT

13:36:61 8/88/8



PACTED PAYLOAD CREU TRAINING EDITOR NAIN NEWS

TERMINATE

DISPLAY USAGE INFORMATION
DISPLAY/EDIT COMPOSITE TIMELINE
DISPLAY/EDIT EVENT TIMELINE AND POST-PROCESS TRAVEL
DELETE GROUP FROM TIMELINE
DISPLAY/EDIT CREU TIMELINE
DELETE CREU FROM TIMELINE
TRANSFER TO PACT DATA BASE MODULE (PACTDB)
URITE NEU TIMELINE FILES
TRANSFER TO PACT REPORT GENERATOR (PACTRG) 1 ろう 4 らら 7 8 9

PRINTING OF ON AND OFF TIMES IN PROGRESS
URITING OF FILES IN PROGRESS
SPECIFY FILE NAME FOR URITING THE FOLLOWING
CREW TRAINING TIMELINE (LDF)
MIPS>PACTLD
WHAT IS URITE KEY FOR FILE PACTLD

STREET IN SKILLER

DO YOU WANT TO ADD HORE SUBJECTS TO EXISTING DATA FILE

MIPS>NO UHAT IS URITE KEY FOR FILE PACTOF MIPS>880000

153

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(PACTED PAYLOAD CREW TRAINING EDITOR MAIN MENU

TERMINATE

DISPLAY USAGE INFORMATION

DISPLAY/EDIT COMPOSITE TIMELINE
DISPLAY/EDIT COMPOSITE TIMELINE
DISPLAY/EDIT EVENT TIMELINE
DISPLAY/EDIT CREW TIMELINE
DELETE CREW FROM TIMELINE
DELETE CREW FROM TIMELINE
TRANSFER TO PACT DATA BASE MODULE (PACTDB)
URITE NEW TIMELINE FILES
TRANSFER TO PACT REPORT GENERATOR (PACTRG)



PACTEG NAIN MENU

0 - TERMINATE 1 - DISPLAY USAGE INFORMATION (HELP) 2 - DISPLAY PLOTS ON TEKTRONIX AND TABLES ON TEKTROMIX AND PRINT FILE 3 - DISPLAY TABLES ON PRINT FILE MIPS>0

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05/14/79 15:54:21

(PACTED PAYLOAD CREW TRAINING EDITOR MAIN MENU

TERMINATE

DISPLAY USAGE INFORMATION
DISPLAY/EDIT COMPOSITE TIMELINE
DISPLAY/EDIT COMPOSITE TIMELINE
DISPLAY/EDIT EVENT TIMELINE
DISPLAY/EDIT CREW TIMELINE
DELETE CREW FROM TIMELINE
TRANSFER TO PACT DATA BASE MODULE (PACTOB)
TRANSFER TO PACT REPORT GENERATOR (PACTRG)

TOTAL SUP TIME = 1.58 MIN IS THE CURRENT PRINT FILE TO BE TRANSMITTED? MIPS>YES SELECT NEW PRINT FILE OPTION: 1 - URITE PRINT FILE ON PAPER 2 - URITE PRINT FILE ON FICHE MIPS>1 A PRINT FILE HAS BEEN ESTABLISHED NAMED MPS100629*PSF\$. INSERT COMMANDS : (INSERT HELP FOR TUTORING) RIPS)STOP MIPS IS EXITING PRINT FILES WILL BE DELETED IF NOT TRANSMITTED IS THE CURRENT PRINT FILE TO BE TRANSMITTED? MIPS>YES NORMAL EXIT. CPU TIME: 295 TOTAL SUPS: 14885 (MILLISECON DS)STOP: MIPS >efin

RUNID: ELPACT ACCT: 1HEL12493200 PROJECT: JACKIEBIN207

STOP: MIPS

TIME:

SUPS: 00:01:47.014 CBSUPS: 030037005

CPU: 00:00:11.721 I/O: 00:00:35.924 CC/ER: 00:00:59.368 WAIT: 00:15:42.083

IMAGES READ: 66 PAGES: 33

09:40:37 JUN 25,1979 FIN: 10:07:29 JUN 25,1979

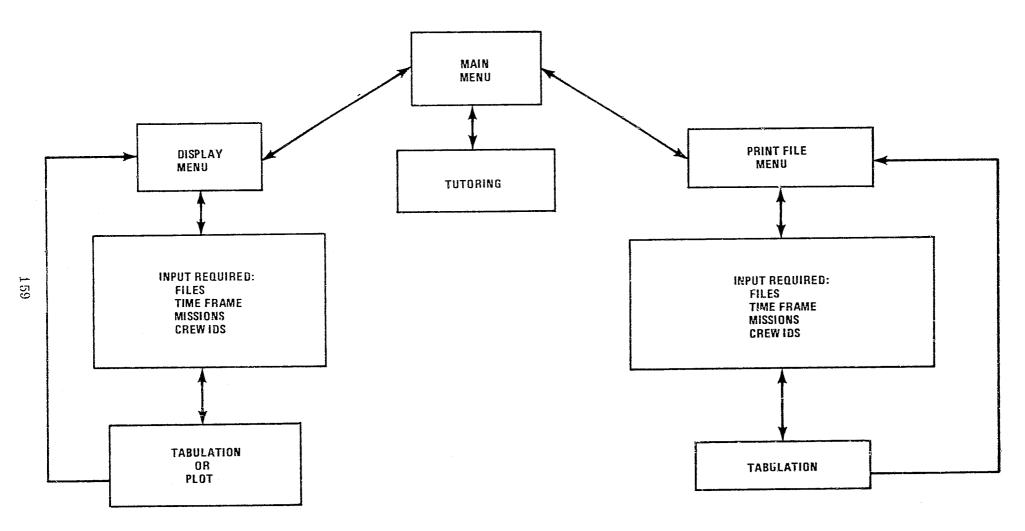
TECHNENT TYPE YOU WILL GET ANY TYPE SERVO THAT HAPPENS TO BE AUAILABLE, EX: U34, U30, 80, OR 809. ALL GASG CARDS THAT NOW USE 'T' EQUIPMENT TYPES SHOULD BE CHANGED TO USS IMMEDIATELY. EXAMPLE: CASC, T FILEMANE, T. REELINE CHANGE TO CASC, T FILEMANE, USS, REELINE

STERMINAL INACTIVES > OGTERM

APPENDIX H

PACTRG MODULE BLOCK DIAGRAM AND COMPUTER CONFIGURATION

PACTRG MODULE BLOCK DIAGRAM



**NOTE: TUTORING INFORMATION MAY BE DISPLAYED FROM ANY TABULATION OR PLOT

COMPUTER CONFIGURATION

Language - FORTRAN

Core Requirement - 31.63K

Input Files - Name-Directed File (NDF) containing mission dependent data and TAE Models. List Directed File (LDF) containing schedule time, resource and travel cost/time data. ON/OFF File containing crew activities.

APPENDIX I

PACTRG TUTORIAL DISPLAYS

PACTRG EXPLANATORY NOTES

| Page No. | Explanation |
|------------|--|
| II | PACTRG may be accessed through the Payload Crew Scheduler (Option 7 Main Menu) or by using standard UNIVAC 1108 and MIPS procedures as shown on tutorials on pages 58 and II. |
| 12 | PACTRG Main Menu. |
| 13 | Main Menu, Option 1, has been selected by the user. When the return key is hit, the page will turn. |
| 14 | Usage information. |
| I 5 | Main Menu, Option 2, has been selected by the user. When the return key is hit, the page will turn. |
| 16 | PACTRG Display Menu. |
| 17 | Dîsplay Menu, Option 1, has been selected by the user. When the return key is hit, the page will turn. |
| 18 | User must specify PACTS Name-Directed File supporting report generations, e.g., TRAINING. NOTE: Option 14 can also be used prior to selection of any other options. |
| 19 | User must specify PACTS List-Directed File supporting report generation, e.g., PACTLD. NOTE: Option 15 can be used prior to the selection of any other option. When the return key is hit, the page will turn. |
| I10 | User must insert start and end times if different event from the ones shown or if there is none shown. When the return key is hit, the page will turn. |
| I11 | Composite schedule. When the return key is hit, the page will turn. |
| I12 | Display Menu, Option 2, has been selected by the user. When the return key is hit, the page will turn. |
| I13 | User must insert start and end times if different from those shown or if there is none shown. When the return key is hit, the page will turn. |
| I14 | Composite Schedule with Cost and Duration. When the return key is hit, the page will turn. |

| Page No. | Explanation |
|----------|---|
| 115 | Display Menu, Option 3, has been selected by the user. When the return key is hit, the page will turn. |
| 116 | User must specify legend for display, e.g., PACTLD. When the return key is hit, the page will turn. |
| 117 | Mission to be scheduled must be selected. When return key is hit, page will turn. |
| 118 | User must provide start time and delta time if different or if none shown. Whenreturn key is hit, page will turn. |
| 119 | Schedule for all TAE Groups. When return key is hit, page will turn. |
| 120 | Display Menu, Option 4, has been selected by the user. When return key is hit, page will turn. |
| I21 | User must specifiy mission, e.g., SLI. When return key is hit, page will turn. |
| 122 | Schedule Summary for ALL TAE Groups. When return key is hit, page will turn. |
| 123 | Display Menu, Option 5, has been selected by the user. When the return key is hit, the page will turn. |
| 124 | User must specify legend, e.g., PACTLD. When the return key is hit, the page will turn. |
| 125 | User must specify start time and delta time if different from those shown or if none shown. When return key is hit, page will turn. |
| 126 | User must specify mission, e.g., SLI. When return key is hit, page will turn. |
| 127 . | Scheduling Opportunities for all Groups. When return key is hit, page will turn. |
| 128 | Display Menu, Option 6, has been selected by the user. When return key is hit, page will turn. |

| Page No. | Explanation |
|----------|---|
| 129 | User must specify legend, e.g., PACTLD. When return key is hit, page will turn. |
| 130 | User must supply start time and delta time if different from those shown or if none shown. When return key is hit, page will turn. |
| I31 | Composite Grewman Unscheduled Time. When return key is hit, page will turn. |
| 132 | Display Menu, Option 7, has been selected by the user. When return key is hit, page will turn. |
| 133 | User must supply start and end time if different from those shown or if none shown, When return key is hit, page will turn. |
| 134 | Unscheduled time. When return key is hit, page will turn. |
| 135 | Display Menu, Option 8, has been selected by the user. When return key is hit, page will turn. |
| 136 | User must specify start and end times if different from those shown or if none shown. When return key is hit, page will turn. |
| 137 | Composite Travel Schedule. When return key is hit, page will turn. |
| 138 | Display Menu, Option 9, has been selected by the user. When return key is hit, page will turn. |
| 139 | User must specify legend, e.g., PACTLD. When return key is hit, page will turn. |
| 140 | User must specify start time and delta time if different from those shown or if none shown. When return key is hit, page will turn. |
| 141 | Composite Timeline for Locations. When return key is hit, page will turn. |
| 142 | Display Menu, Option 10, has been selected by the user. When return key is hit, page will turn. |

| Page No. | Explanation |
|-------------|--|
| 143 | User must specify legend, e.g., PACTLD. When return key is hit, page will turn. |
| 144 | User must specify start time and delta time if different from those shown. When return key is hit, page will turn. |
| 145 | User must specify mission. When return key is hit, page will turn. |
| 146 | Composite Resource Timeline. When return key is hit, page will turn. |
| 147 | Display Menu, Option 11, has been selected by the user. When return key is hit, page will turn. |
| I48 | User must specify start and end times. When return key is hit, page will turn. |
| 149 | User must specify crewman for display. When return key is hit, page will turn. |
| 150 | Crewman Schedule PSI. When return key is hit, page will turn. |
| I5 1 | Display Menu, Option 12, has been selected by the user. When the return key is hit, the page will turn. |
| 152 | User must specify legend, e.g., PACTLD. When the return key is hit, the page will turn. |
| 153 | User must specify start time and delta time. When the return key is hit, the page will turn. |
| 154 | User must specify crewman for display. When the return key is hit, the page will turn. |
| 155 | User must specify the mission. When the return key is hit, the page will turn. |
| 156 | Location Timeline for PS1. When the return key is hit, the page will turn. |
| 157 | Display Menu, Option 13, has been selected by the user. When the return key is hit, the page will turn. |
| 158 | User must specify start and end time. When the return key is hit, the page will turn. |

| Page No. | Explanation |
|----------|---|
| 15 9 | User must specify crewman for display. When the return key is hit, the page will turn. |
| 160 | Unscheduled Time for PS1. When the return key is hit, the page will turn. |
| 161 | Display Menu, Option 14, has been selected by the user. When the return key is hit, the page will turn. |
| 162 | User must specify PACTS Name-Directed File. When the return key is hit, the page will turn. |
| 163 | Display Menu, Option 15, has been selected by user. When the return key is hit, the page will turn. |
| 164 | User must specify PACTS List-Directed File. When the return key is hit, the page will turn. |
| 165 | Display Menu, Option 16, has been selected by the user. When the return key is hit, the page will turn. |
| 166 | User must specify PACTS ON/OFF File. When the return key is hit, the page will turn. |
| 167 | Display Menu, Option Ø. has been selected by the user. When the return key is hit, the page will turn. |
| 168 | Main Menu, Option 3, has been selected by the user. This Option prints the Display on the Alternate Print File. When the return key is hit, the page will turn. |
| 169 | Print Option Menu. User may select, one at a time, as many of these options as desired. When the return key is hit, the page will turn. |
| 170 | Print Option Menu, Option 1, has been selected by the user. When the return key is hit, the page will turn. |
| 171 | User must specify start and end times. When the return key is hit, the page will turn. |
| 172 | User must specify the mission. When the return key is hit, the page will turn. |

| Page No. | Explanation |
|----------|---|
| 173 | Print Option Menu, Option \emptyset , has been selected by the user. When the return key is hit, the page will turn. |
| 174 | PACTRG is exited through the PACTRG Main Menu, Option Ø. When the return key is hit, PACTRG will terminate and the terminal will be returned to MIPS. |
| 175 | Standard UNIVAC 1108 termination procedures. |

- NOTE: 1. Tutorial Display Data in this appendix is SL1 Mission Data.
 - 2. PACTRG can be called up by standard UNIVAC 1108 and MIPS procedures as shown on the tutorial displays on pages II and IIA However, PACTRG can also be called up by using Option 7 of PACTS Main Menu or Option 9 of PACTED.

HOSTE(EXB) UP HOST1(2X8) UP i PORT 25/26 SIGNON DIKOS1 ENTER USERID/PASSWORD: >PACTS/HCC RUN NUMBER 11

LAST RUM AT: 070280 071857 DATE: 070280 TIME: 083554 >0MIPS.L MIPS INITIALIZATION IS IN PROGRESS

OFF-LINE MAINTENANCE PROCESSOR LAST RUN AT 06/21/79 10:59:43

TOTAL SUP TIME = .65 MIN

SELECT NEW PRINT FILE OPTION:

1 - WRITE PRINT FILE ON PAPER

2 - WRITE PRINT FILE ON FICHE

MIPS>1

A PRINT FILE HAS BEEN ESTABLISHED NAMED MPS140227*P\$F\$.

INSERT COMMANDS: (INSERT HELP FOR TUTORING)

MIPS>RUN PACTRG

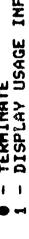
MIPS>GO



- TERMINATE
 DISPLAY USAGE INFORMATION (HELP)
 DISPLAY PLOTS ON TEKTRONIX AND TABLES ON TEKTRONIX AND PRINT FILE
 DISPLAY TABLES ON PRINT FILE
 MIPS>







0 - TERMINATE 1 - DISPLAY USAGE INFORMATION (HELP) 2 - DISPLAY FLOTS ON TEXTRONIX AND TABLES ON TEXTRONIX AND PRINT FILE 3 - DISPLAY TABLES ON PRINT FILE NIPS>1

OF KINAL PAGE 18

USAGE INFORMATION

- # PLOTS CAN BE DISPLAYED ONLY ON TEXTRONIX
- * FILE(S) NEEDED FOR DISPLAY WILL BE ASKED FOR IF THEY HAVE NOT BEEN SUPPLIED
- * AT THE END OF EACH DISPLAY THE USER SHOULD
 - * ENTER A BLANK IMAGE TO CONTINUE DISPLAYS
 - * ENTER 'NEXT' TO STOP THIS DISPLAY OPTION AND CONTINUE TO NEXT SELECTED OPTION
 - * ENTER 'STOP' TO STOP ALL DISPLAYS AND RETURN TO LAST DISPLAY
 - * ENTER 'TIME' TO RETURN TO TIME QUESTION FOR DISPLAY
 - * ENTER 'MISSION' TO RETURN AND INPUT NEW MISSION(S)
 - * ENTER 'CREW' TO RETURN AND INPUT NEW CREW
 - * ENTER 'LEGEND' TO RETURN AND INPUT NEW LEGEND
 - * ENTER 'HELP' TO DISPLAY TUTORING
 - *** HOTE: AN INPUT IS TRANSMITTED WHEN THE RETURN KEY IS PRESSED
- * 'STOP' AND 'RETURN' IS EFFECTIVE AT ANY TIME READ/COPY THIS IMPUT WILL NOT BE INTERPRETED MIPS>

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PACTRG HAIN MENU

1 - DISPLAY USAGE INFORMATION (HELP) 2 - DISPLAY PLOTS ON TEKTRONIX AND TABLES ON TEKTRONIX AND PRINT FILE 3 - DISPLAY TABLES ON PRINT FILE MIPS>2



SELECT DISPLAY OPTION(S) DESIRED

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SCHEDULE WITH COST AND DURATION COMPOSITE COMPOSITE TABULATE TABULATE

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SCHEDULING OPPORTUNITIES FOR ALL GROUPS GRAPH OF PLOT BAR TABULATE

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TRAVEL SCHEDULE **TABULATE**

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TRAVEL SCHEDULE TABULATE

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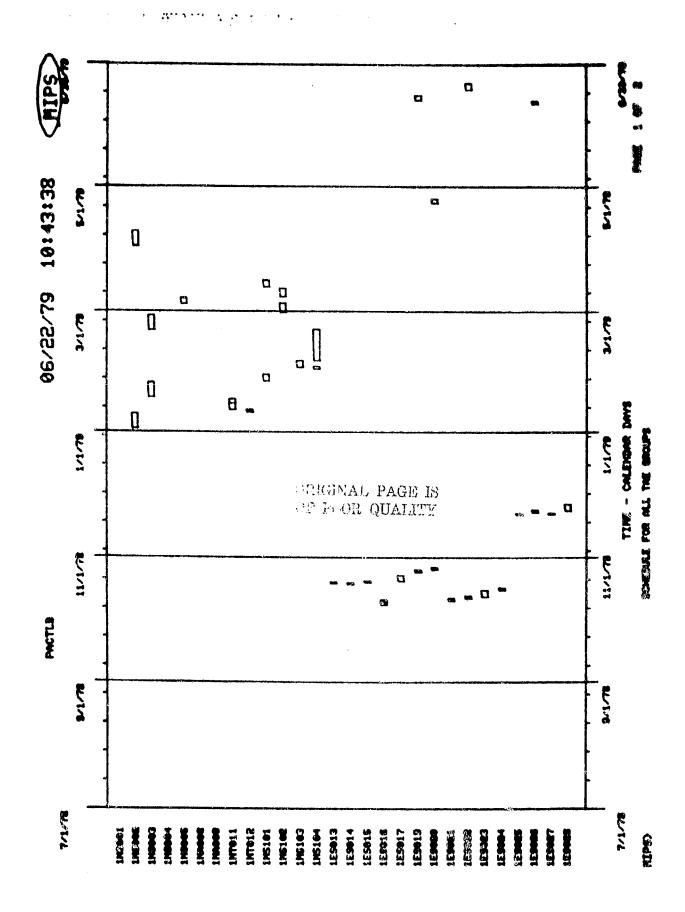
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TABULATE TRAVEL SCHEDULE

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RESOURCE UTILIZATION TIMELINE

*** BY INDIVIDUAL CREUMAN ***

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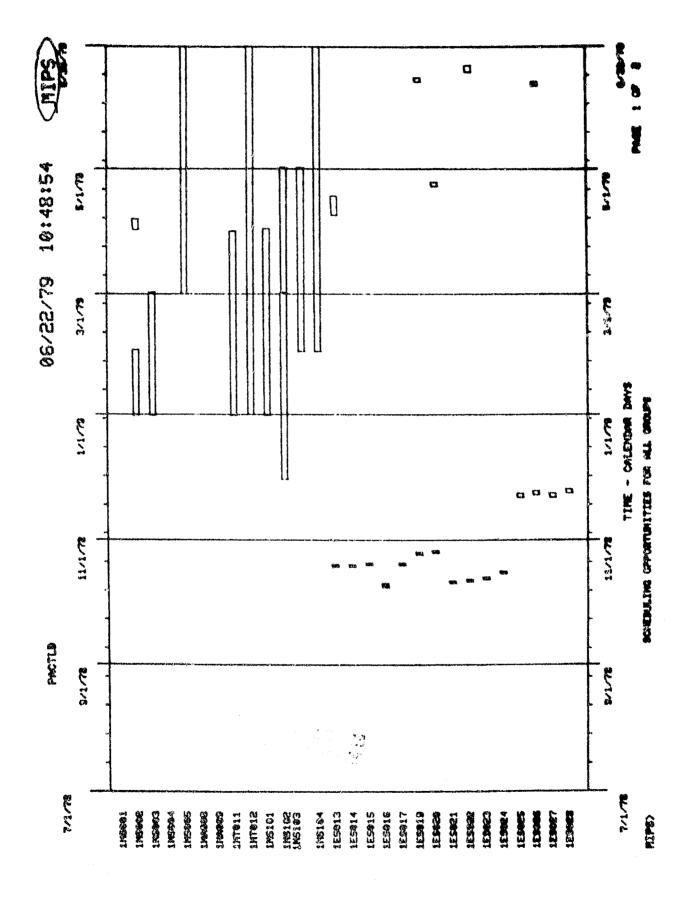
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TABULATE SCHEDULE FOR A CREUMAN

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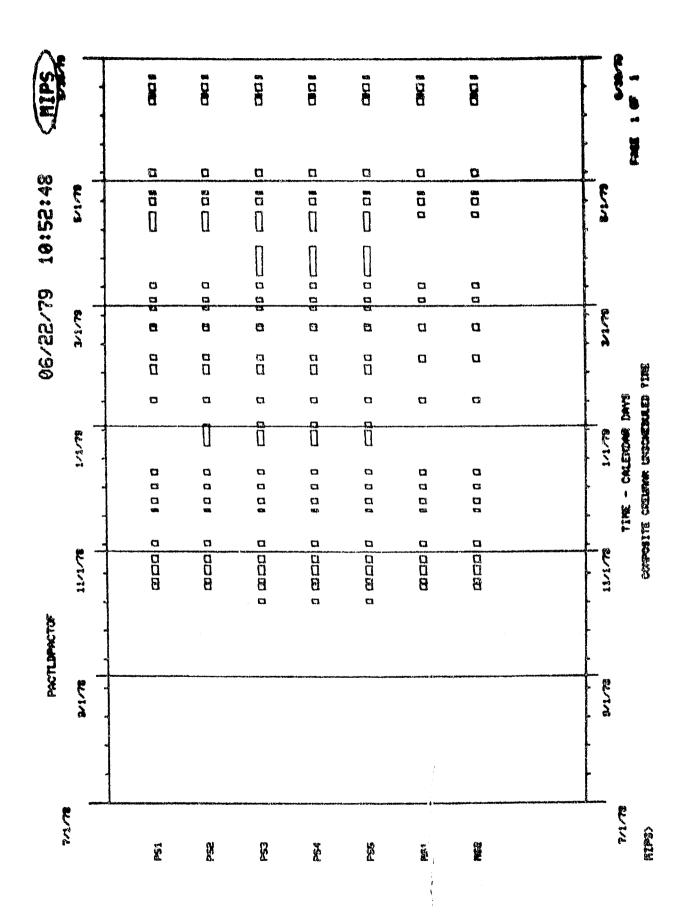
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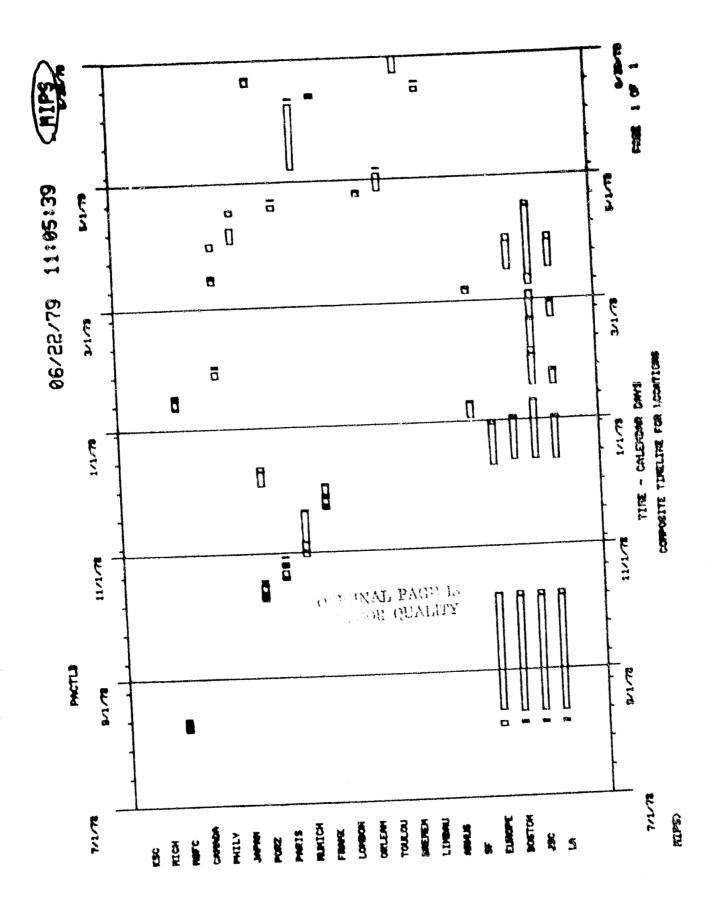
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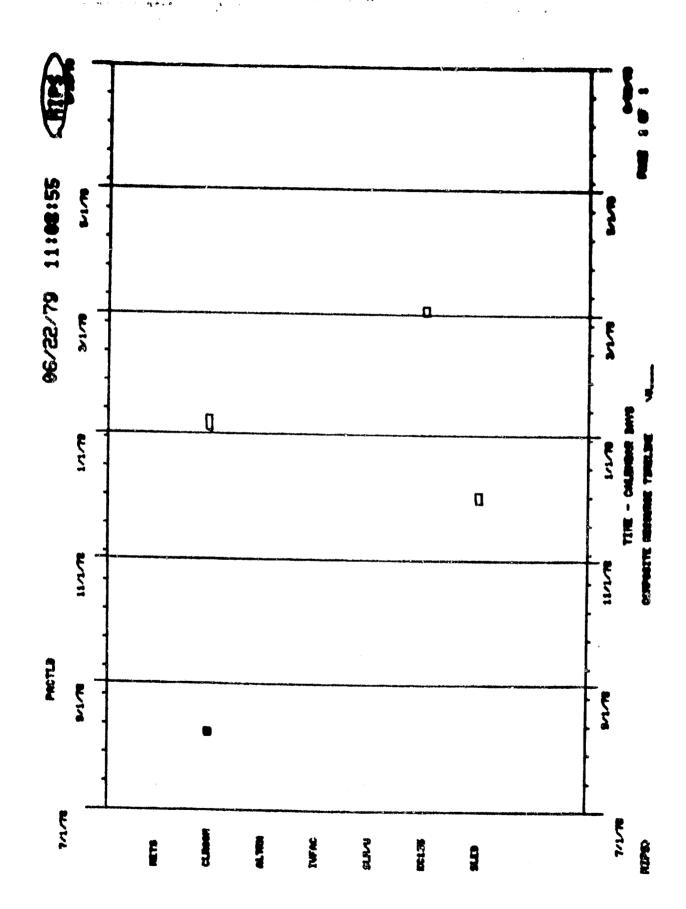


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- 3 PLOT BAR GRAPH OF SCHEDULE FOR ALL TAE GROUPS
- 4 TABULATE SCHEDULE SUMMARY FOR ALL TAE GROUPS
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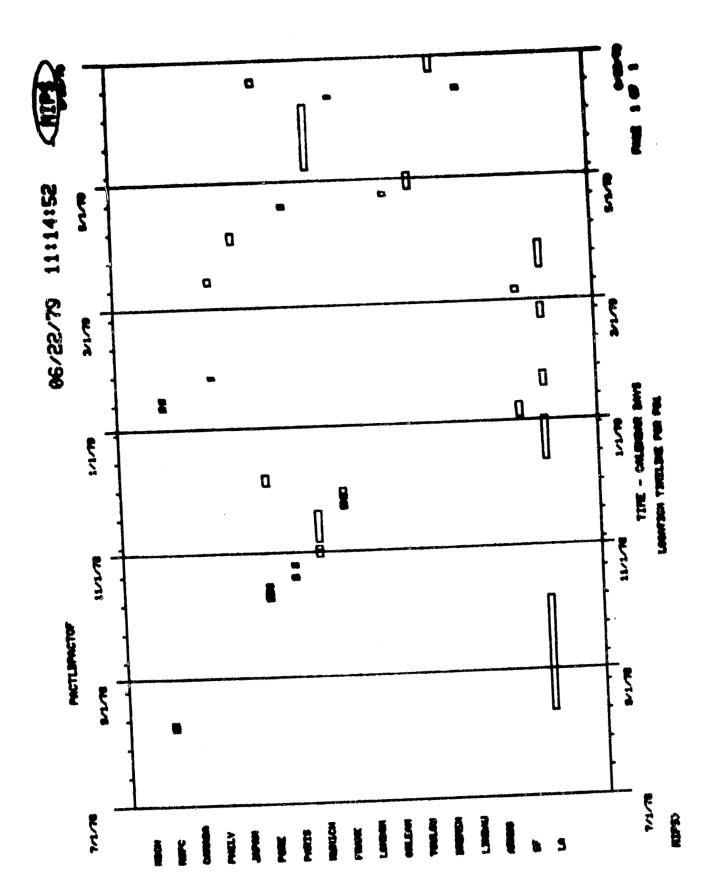
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ENTER MISSION(S) DESIRED CURRENTLY: SL1

SELECT PRINT OPTION(S) DESIRED :

| MENC |
|--------|
| MAIN |
| 10 |
| RETURN |
| 1 |

PRINT ALL TABLES

*** SUNNARY *** PRINT

COMPOSITE SCHEDULE WITH COST AND DURATION PRINT

SCHEDULE SUMMARY FOR ALL TAE GROUPS UNSCHEDULED TIME FOR ALL CREUMEN TRAVEL SCHEDULE PRINT

PRINT PRINT

XXX BY INDIVIDUAL CREUMAN XXX

PRINT ı ~ **®**

ı

SCHEDULE FOR A CREUMAN UNSCHEDULED TIME AND LOCATIONS FOR A CREUMAN *** INPUT FILE SETUP *** PRINT

TRAINING PACTLD PACTOF CURRENTLY CURRENTLY CURRENTLY NAME-DIRECTED FILE LIST-DIRECTED FILE ON/OFF FILE - INPUT INPUT - INPUT 0 9

MIPS>8





TERMINATE
 DISPLAY USAGE INFORMATION (HELP)
 DISPLAY PLOTS ON TEXTRONIX AND TABLES ON TEXTRONIX AND PRINT FILE
 DISPLAY TABLES ON PRINT FILE
 DISPLAY TABLES ON PRINT FILE

TOTAL SUP TIME = 1.58 MIN
IS THE CURRENT PRINT FILE TO BE TRANSMITTED?
HIPS>YES

SELECT NEW PRINT FILE OPTION:

1 - URITE PRINT FILE ON PAPER

2 - URITE PRINT FILE ON FICHE
MIPS>1

MPS100629xP8F8. FOR TUTORING) NAMED A PRINT FILE HAS BEEN ESTABLISHED HELP INSERT COMMANDS : (INSERT

MIPS>STOP MIPS IS EXITING PRINT FILES WILL BE DELETED IF NOT TRANSMITTED

IS THE CURRENT PRINT FILE TO BE TRANSMITTED?

SUPS: TOTAL CPU TIME: DS)STOP: MIPS NORMAL EXIT.

(MILLISECON

14885

PROJECT: JACKIEBIN287 ACCT: 1HEL12493200 STOP: MIPS RUNID: ELPACT

SUPS: 00:01:47.014 CBSUPS: 030037005 CPU: 00:00:11.721 I/0: 00:00:35.924 CC/ER: 00:00:59.368 WAIT: 00:15:42.083

10:67:29 JUN FIN: .пи: 66 09:40:37 JUN 25,1979 READ: IMAGES STARTS

25,1979

BASG, T FILENAME, USA, REELINA ALL BASG CARDS THAT NOU USE USS IMMEDIATELY. SERUO THAT HAPPENS TO BE CHANGE TO TECHNENT TYPE YOU WILL GET ANY TYPE AVAILABLE, EX: U34, U30, 8C, OR 8C9. EQUIPMENT TYPES SHOULD BE CHANGED TO EXAMPLE: @ASG,T FILENAME,T,REELNR

TTERMINAL INACTIVEX

243

APPENDIX J

UNIVAC 1108 LOGON/LOGOFF

PROCEDURES

HOSTE(EXØ) UP HOST1(2X8) UP ENTER USERID/PASSWORD: SIGNON 25/58 PORT 2 DTK051

RUM NUMBER 11

LAST RUN AT: 070280 071857 DATE: 070280 TIME: 083554 >@MIPS,L

TOTAL SUP TIME * 1.58 MIN IS THE CURRENT PRINT FILE TO BE TRANSMITTED? SELECT NEU PRINT **HIPSYES**

OH PAPER

LECT NEU PRINT FILE OPTION:
- URITE PRINT FILE ON FICHE
- URITE PRINT FILE ON FICHE HIPSAL

HPS100629xPSFS. FOR TUTORING) A PAINT FILE HAS BEEN ESTABLISHED NAMED INSERT COMMANDS : (INSERT

PRINT FILES WILL BE DELETED IF NOT TRANSMITTED HIPS IS EXITING MIPS>STOP

TOTAL SUPS: IS THE CURRENT PRINT FILE TO BE TRANSMITTED? ROS CPU TIME: NORMAL EXIT. **HIPS>YES**

(MILLISECON

14885

DS)STOP: MIPS

PROJECT: JACKIEBIN207 ACCT: 1 MEL 12493200 STOP: MIPS RUMID: ELPACT

CBSUFS: 836837685 66:00:35.924 UAIT: 60:15:42.083 1/0: 60:00:11.721 88:81:47.814 SUPS CPU:

PAGES : CC/ER: READ:

10:07:29 JUN 25,1979 FIN 69:49:37 JUN 25,1979 IMAGES START:

8856,7 FILENME, USS, REELM ALL GASG CARDS THAT NOW USE USS IMMEDIATELY.
CHANGE TO 8ASG,T FILENAME. SERVO THAT HAPPENS TO BE TECHNENT TYPE YOU UILL GET ANY TYPE ANAILABLE, EX: U34, U30, 8C, OR 8C9. EQUIPMENT TYPES SHOULD BE CHANGED TO EXAMPLE: 0656,T FILENAME,T,REELHR

STERRINAL INACTIVES

246

APPENDIX K
MIPS COMMANDS

HOSTECEX®) UP HOST1(2X8) UP ſ DTKOS1 ENTER USERID/PASSWORD: >PACTS/HCC SIGNON 25/26 PORT

RUN HUMBER 11

LAST RUN AT: 070280 071857 DATE: 070280 TIME: 083554 >@MIPS,L

248

69:13:14 east new as

HIPSELLE/PACTS/BIKORIA

275109111F2F4 TON TON ms din something his diezza comande

3001

TOTAL SUP TIME = 1.58 MIN IS THE CURRENT PRINT FILE TO BE TRANSMITTED?

Charles Charles Charles Charles Charles

OPTIONS RIPS>YES SELECT NEW PRINT

ON PAPER - WRITE PRINT - WITE PRINT

MIPS>1

MPS1006294P8FS. FOR TUTORING) NAMED A PRINT FILE HAS BEEN ESTABLISHED INSERT COMMANDS : (INSERT HELP

MIPS>STOP

MIPS IS EXITING

PRINT FILES WILL BE DELETED IF NOT TRANSMITTED

IS THE CURRENT PRINT FILE TO BE TRANSMITTED?

MIPS>YES

CPU TIME:

(MILLISECON

14885

SUPS

TOTAL

DS)STOP: MIPS HORMAL EXIT.

PROJECT: JACKIEBIN207 ACCT: 1HEL12493289 STOP: MIPS RUHID: ELPACT

I/O: 66:06:35.924 UAIT: 96:15:42.933 030037005 CBSUPS 2 66161147,614 SUPS SPC:

90:00:11.721 00:00:59.368 CC/ER:

10:07:29 JUN 25,1979 ***** #8148137 JUN 25,1979 WEAD: TRACES START:

ALL BASG CARDS THAT NOW USE USS IRREDIATELY. SERVO THAT HAPPENS TO AUALLABLE, EX: U34, U30, 8C, OR 8C9. EQUIPMENT TYPES SHOULD BE CHANGED TO EXAMPLE: \$ASC,T FILEMANE,T,REELM

8456, T FILERAME, URB, MELLM CHANGE TO

TERRINAL INACTIVES

> SETERE

250

APPENDIX L

PDP COMMANDS AND

UNIVAC 1108

PACT36 AND UPFIT

COMMANDS

FIGURE L-1 PACTS/IGDS INTERFACE PROGRAMS

MICRO-PROCESSOR PROCEDURE

(To be used temporarily until automatic system installed)

1. Power On:

Floppy Disk Unit (Back)

Micro-processor (Front)

Terminal

(Back)

2. Initialize Floppy Disk Unit

Put Floppy Disk 2 into Slot 2 of Unit

3. Initialize Micro-processor

Press

Stop

Press

Reset

Press

Examine

Press

Run

4. Initialize Terminal

Press Space Bar One Time

Type PDPICM1

5. Remove Floppy Disk

BUM MUMBER 20

LAST RUN AT: 082179 080112

DUP ID, NEW ID IS C2176 DATE: 082179 TIME: 121053 >GRIPS,L

1108 HOST 1 MIPS PACT36

RIPS INITIALIZATION IS IN PROGRESS

OFF-LINE MAINTENANCE PROCESSOR LAST RUN AT 08/21/79 11:12:21

TOTAL SUP TIME = .65 MIN

SELECT NEW PRINT FILE OPTION:

1 - WRITE PRINT FILE ON PAPER

2 - WRITE PRINT FILE ON FICHE

MIPS>1

A PRINT FILE HAS BEEN ESTABLISHED NAMED MPS121206*P\$F\$

A PRINT FILE HAS BEEN ESTABLISHED NAMED MPS121206*PSFS.
INSERT COMMANDS: (INSERT HELP FOR TUTORING)
MIPS>READY PACTLD

PACT36 READY FOR USE MIPS>RUN PACT36 MIPS>GO OF TOOR OF ALTRY

1108 HOST 1 MIPS PACT36

SPECIFY FILE NAME FOR READING THE FOLLOWING
PACTS 24 WORD LIST-DIRECTED FILE
MIPS>PACTLD
LDF PACTLD
LAST WRITE 08/31/79 10:28:51 7% OF USABLE SPACE
SPECIFY ACCEPTANCE CONDITIONS, ENTER HELP FOR TUTORING
UP TO 4 LINES, USE; FOR CONTINUATION
MIPS>
SPECIFY FILE NAME FOR WRITING THE FOLLOWING
36 WORD LIST-DIRECTED OUTPUT FILE
MIPS>PACT36

1108 HOST I MIPS PACT36

(MILLISECON 14876 MPS110657*P\$F\$. SUPS: FOR TUTORING) TOTAL MIPS IS EXITING PRINT FILES WILL BE DELETED IF NOT TRANSMITTED TOTAL SUP TIME * 2.22 MIN
IS THE CURRENT PRINT FILE TO BE TRANSMITTED? IS THE CURRENT PRINT FILE TO BE TRANSMITTED? NAMED A PRINT FILE HAS BEEN ESTABLISHED ERT COMMANDS : (INSERT HELP 306 ON PAPER ON FICHE OPTION: INSERT COMMANDS : (INSERT CPU TIME: FILE FILE FILE SELECT NEW PRINT 1 - URITE PRINT 2 - URITE PRINT NORMAL EXIT. MIPS>STOP MIPS>YES MIPS>YES 1 - UR 2 - UR MIPS>1

11:07:48 AUG 31,1979 PROJECT: JACKIEBIN207 3 037602476 90:00:50.740 UAIT: 00:07:64.857 CBSUPS: FIN: 1/0: ACCT: 1HEL12493200 PAGES: 10:53:40 AUG 31,1979 00:02:25.036 00:00:03.829 CC/ER: SUPS: STOP: MIPS READ: CPU: RUNID: ELPACT IMAGES START:

(TECH BULLETIN 52) 27,1979 08/17/79 AUGUST DEMAND TERMINAL USER GUIDE UPDATED TECHNICAL BULLETIN LAST UPDATED

XTERMINAL INACTIVEX

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DS)STOP: MIPS

VEF IN

PORT 25/26 SIGNON - HOST1(2X0) UP HOST2(2X0) UP DTK051
ENTER USERID/PASSWORD:
>PACTS/HCC

RUN NUMBER 11

LAST RUN AT: 070280 071857 DATE: 070280 TIME: 083554 >@MIPS,L

25

HAS BEEN ESTABLISHED NAMED MPS075259#P\$F\$. 84:07:47 MIPS INITIALIZATION IS IN PROGRESS

OFF-LIME MAINTENANCE PROCESSOR LAST RUN AT 07/17/80

TOTAL SUF TIME - .57 MIN

SELECT NEW PRINT FILE OPTION:

1 - WRITE PRINT FILE ON PAPER

2 - URITE PRINT FILE ON FICHE A PRINT FILE H INSERT COMMANDS : MIPS>RUN UPFIT MIPS>GO AL SAL

40

TLC2

C5-6

RES2

LOC

CR6

RES3

LOCS

CR7

R3-4

MIPS>RES2 RES3 R3-4 RES4 RES5 RE-5

CR1

C7-8

RES4

SEPARATE MNEMONICS WITH A SPACE

1000 RECORDS WRITTEN TO TAPE...UPFIT STI

```
1 - GET MIPS FILE FROM PDP TAPE
     2 - SEND MIPS FILE TO PDP ON TAPE
MIPGY2
   ENTER A 24 CHARACTER DESCRIPTION FOR TAPE-SAUE LABEL
MIPS>SL1 PACT36
    ** * ** WAITING ON TAPE TO BE MOUNTED ** * **
       ***********************
        IF TAPE IS INPUT TAPE THE TAPE NUMBER
        SHOULD BE CALLED INTO THE TAPE LIBRARY
           LIBRARY PHONE # IS -- 3-4477
       **************
  ENTER MIPS FILE TO BE USED IN TRANSFER
MIPS>PACT36
 DO YOU WISH TO DISPLAY DATA ON ALTERNATE PRINT FILE
MIPS>NO
                    DAT3
                           DDUR
                                  UDUR
                                        GRUP
                                               GRP2
                                                      TCST
EUNT
       DAT1
              STAG
```

CR12

RES5

ENTER THE ABOUE MNEMONICS WHICH REPRESENT ALPHANUMERIC DATA

CR8

MIPS>CR4 CR5 C5-6 CR6 CR7 C7-8 CR8 CR9 9-10 CR10 RES1 R1-2 :

250 RECORDS WRITTEN TO TAPE...UPFIT STILL ACTIVE 500 RECORDS WRITTEN TO TAPE...UPFIT STILL ACTIVE 750 RECORDS WRITTEN TO TAPE...UPFIT STILL ACTIVE

CR2

CR9

RE-S

MIPS>DAT1 DAT2 DAT3 GRUP GRP2 TCST TLOC TLC2 LOC LOC2 CR1 CR12 CR2 CR3 C3-4 1

CR3

9-10

C3-4

CR10

CR4

RES1

TLOC

R1-2

CR5

SELECT DIRECTION OF FILE TRANSFER O - TERMINATE PROGRAM EXECUTION SELECT DIRECTION OF FILE TRANSFER

6 - TERMINATE PROGRAM EXECUTION

1 - GET MIPS FILE FROM PDP TAPE

2 - SEND MIPS FILE TO PDP ON TAPE

MIPS>0

NEW TAPE NUMBER IS

23350

READ/COFY - THIS INPUT WILL NOT BE INTERPRETED

MIPS>

| | | | 7116 | 25 | | | |
|--|---|---|--|---|------|--|---|
| TOTAL SUP TIME . 5.05 MIN IS THE CURRENT PRINT FILE TO BE TRANSMITTED? | MIPS>NO INSERT COMMANDS: (INSERT HELP FOR TUTORING) MIPS>STOP | MIPS IS EXITING PRINT BE DELETED IF NOT TRANSMITTED PRINT FILES WILL BE DELETED IF NOT TRANSMITTED? | MIPS>NO NORMAL EXIT. CPU TIME: 20 TOTAL SUPS: DS)STOP: MIPS >@FIN | 1HEL12401300 PROJ LANK TP1 PDPTAP -1 P | LOAD | 04869 *** SAUE *** 04869 LOAD UNLABELED BLANK T ANSWER WITH REEL NO. ON | PACTS FIN TIME: TOTAL: 00:05:07.643 CBSUPS: 101170559 CPU: 00:01:22.197 I/O: 00:01:37.923 |

(MILLISECON

>HEL E100,13 PASSWORD: RSX-11M BL22 MULTI-USER SYSTEM

GOOD MFTERNOON 82-JUL-80 14:13 LOGGED ON TERMINAL 7T4:

GETTING FULL THE DISKS ARE YOUR FILES. PURGE PLEASE

MIPS

```
A PRINT FILE HAS BEEN CREATED NAMED DP:E100,13T04141707.APF INSERT COMMANDS
PDP11/70 MIPS SYSTEM INITIALIZATION NOU IN PROGRESS
PDP 11/70 MIPS IS NOW AT YOUR SERVICE
DO YOU WISH TO ESTABLISH A NEW PRINT FILE?
                                                                                                          THE ENTRY OF A S WILL ABORT THIS PROCEDURE SPECIFY THE NAME OF THE PDP LOCAL FILE TO RECEIVE THE UNIVAC CENTRAL FILE SPECIFY NAME OF UNIVAC CENTRAL FILE TO RETRIEVE SPECIFY THE READ KEY
                                                                                                                                                                                                                                                                            IF NOT PRINTED
FILE TO BE PRINTED?
                                                                                                                                                                                                                                                 PROCEDURE SUCCESSFULLY INITIATED
                                                                                                                                                                                                                                                                                     FILE WILL BE DELETED IS THE CURRENT PRINT
                                                                                                                                                                                                                                                                                                                                        MIPS IS EXITING
                                                                                                                                                                                                                                                                               MIPS>STOP
                                                                                                                                                                                                                                                                                                                               MIPS>YES
                                                                                                                                                                                                                                                     KIPS>
```

SYSTEM INITIALIZATION NOW IN PROGRESS PDP 11/70 MIPS IS NOW AT YOUR SERVICE DO YOU WISH TO ESTABLISH A NEW PRINT FILE? MIPS>YES PDP11/70 MIPS

MINSER COMMANDS
INSERT COMMANDS
INSERT COMMANDS
INSERT COMMANDS
INSERT COMMANDS
BY
36 WORD EXPANDED LIST-DIRECTED FILE FOR
5000 RECORDS. 35 WORDS EACH. KEEP PERIOD3650 DAYS
LAST LOCAL WRITE 3/31/80 12:35
GET TRANSMISSION COMPLETED 3/31/80 12:35

SHIPMAN

0

STATUS COMPLETED

MIPS>

¹,}

WEL CIDE, 13/SAIL

RSX-11H BLZZ MULTI-USER SYSTEM

GOOD AFTERNOON 31-AUG-79 14:67 LOGGED ON TERMINAL TT14:

<</pre>
<</pr>

CONCERNING THE LINE PRINTER AND
SPOOLING TO THE PRINTER. PLEASE READ IT.>>>>>>>>

KEEP YOUR FILES PURGED!

---- HOTICE NOTICE----

-Beginning the first week in Sept., PREUENTIVE MAINTENANCE for the 4014 terminals and hardcopy units will be peformed on a regularly scheduled day of the month.

A sign will be posted in each room with a terminal (or terminals) showing the day and time allotted for the terminals in that room. During these time periods, "P & S maintenance personnel have priority on the terminals in that room. Please comments with these distributing these times.

Harrell Phillips

MEN 300 MEGABYTE DISK DRIVE IS NOW OMLINE. IT'S DEVICE NAME IS DP2: PLEASE TRANSFER SOME OF YOUR FILES FROM DB0: TO DP2: SINCE DB0: IS CRITICALLY LOW ON FREE SPACE. CONTACT ME TO GET YOUR UIC SET UP ON DP2:. AAAAAAAAAA SPECIAL Œ

HARRELL PHILLIPS

programment of the state of the

PDP 11/70 MIPS GET PACT36

```
SHIPMAN
                                                                                                                                                 ..
₽
                                                                                  A PRINT FILE HAS BEEN CREATED NAMED DP: 100,13T14111316.APF
                                                                                                                                                7/30/79 15:55
                                                                                                                                                                                          DAYS
PDP11/70 MIPS SYSTEM INITIALIZATION NOW IN PROGRESS PDP 11/70 MIPS IS NOW AT YOUR SERVICE DO YOU WISH TO ESTABLISH A NEW PRINT FILE?
                                                                                                                                                                                       36 UORDS EACH. KEEP PERIOD3650
8/29/79 17:7
                                                                                                                                                                                                                                                                                                                                                                                                             TO RETRIEUE
                                                                                                                                                                                                                                                                                                                      THE ENTRY OF A S WILL ABORT THIS PROCEDURE SPECIFY THE NAME OF THE PDP LOCAL FILE TO RECEIVE THE UNIVAC CENTRAL FILE
                                                                                                                                                DP@E100, 2JPACT36 LD INSTALLED 3S WORD EXPANDED LIST-DIRECTED FILE FOR
                                                                                                                                                                                                                                   8/29/79 17:7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILE WILL BE DELETED IF NOT PRINTED IS THE CURRENT PRINT FILE TO BE PRINTED?
                                                                                                                                                                                                                                                                                                                                                                                                             SPECIFY NAME OF UNIVAC CENTRAL FILE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PROCEDURE SUCCESSFULLY INITIATED
                                                                                                                                                                                                                                   TRANSMISSION COMPLETED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HAVE A GOOD MORNING
31-AUG-79 11:15 TT14: LOGGED OFF
                                                                                                                                                                                                                                                                                                                                                                                                                                                         SPECIFY THE READ KEY
                                                                                                                                                                                        5000 RECORDS.
LAST LUCAL URITE
                                                                                                                                                                                                                                                                                 STATUS COMPLETED
                                                                                                          INSERT COMMANDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MIPS IS EXITING
                                                                                                                                 MIPS>ST PACT36
                                                                                                                                                                                                                                                                                                                                                                                             MIPS>PACT36
                                                                                                                                                                                                                                                                                                                                                                                                                                     MIPS>PACT36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MIPSSSTOP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MIPSYES
                                                                      HIPSYVES
                                                                                                                                                                                                                                                                                                         MIPSYGET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MIPS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JAR<
```

>SET ZUIC=E100,17 >MOU DRO: ZOVR >MIPS

PDP11/70 MTPS SYSTEM INITIALIZATION HOW IN PROGRESS POP 11/70 MTPS IS NOW AT YOUR SERVICE TO YOU WISH TO ESTABLISH A NEW PRINT FILET

MIPS> YES

A PRINT FILE HAS BEEN CREATED NAMED DESCIOO/13T00095342.APF INSERT COMMANDS

-- MIPS>RUN PEP MIPS>GO

NONEXISTENT MODULE REFERENCED

MODULE ASSUMED TO BE A FUNCTION MODULE RUN PEP

PACTS SCHEDULE DATA EXTRACT PROGRAM SELECT ONE OF THE FOLLOWING:

O - EXIT PROGRAM

1 - EXTRACT SCHEDULE DATA FROM A LIST-DIRECTED FILE

-- MIPS>1 INPUT THE MIPS DATA FILE NAME CONTAINING PACTS SCHEDULE DATA MIPS>PACT36

SELECT DEVICE FOR STORING OUTPUT#

1 - DKO:

2 - DK1:

3 - SYO:

4 - DPO:

MIPS>1

344 DATA RECORDS HAVE BEEN STORED ON DKO: 1100, 1117777.DAT PACTS SCHEDULE DATA EXTRACT PROGRAM SELECT ONE OF THE FOLLOWING:

O - EXIT PROGRAM

1 - EXTRACT SCHEDULE DATA FROM A LIST-DIRECTED FILE

- MIPS>0

IS THE CURRENT PRINT FILE TO BE PRINTED?

MIPS>YES

DO YOU WISH TO ESTABLISH A NEW PRINT FILE?

MIFS>NO

INSERT COMMANDS

MIPS>S

MIPS STOP MIPS IS EXITING DMO DK:

> *** DKO: -- DISHOUNT COMPLETE SET /UIC=E1:13

```
>MOU DNO: FOUR
 >RUN PEP
    INITIALIZATION ERROR - LARGE TERTRORIX ASSUMED
  MO ANTES INTERFACE WILL BE PERFORMED
       <<<< > horule initiated >>>
                                             MIPS 1.0
 PACTS SCHEDULE DATA EXTRACT PROGRAM
--- SELECT ONE OF THE FOLLOWING:
    O - EXIT PROCEAM
    1 - EXTRACT SCHEDULE DATA FROM A LIST-DIRECTED FILE
 MIFS>1
 INPUT THE MIPS DATA FILE NAME
 CONTAINING PACTS SCHEDULE DATA
 MIPS>PACTES
 SELECT DEVICE FOR STORING OUTPUT#
  1 - UKO:
  2 - DK1:
  3 - SYO?
  4 - MPO:
MIPSEL
     344 DATA RECORDS HAVE BEEN STORED ON DKO: 1317777.DAT
 READ/COPY - THIS INPUT HILL NOT BE INTERPRETED
 MIPS>
- PACTS SCHEDULE DATA EXTRACT PROGRAM
   SELECT ONE OF THE FOLLOWING:
    O - 'EXIT PROGRAM
    1 - EXTRACT SCHEDULE DATA FROM A LIST-DIRECTED FILE
 MIPS> 0
```

PDF 11/45 PDFP

```
MCRDLOA DR
MCREMOU DK: ZOVR
MOUNT-**VOLUME INFORMATION**
        DEVICE
                -aDK0
                HETLE II
        CLASS
                 #JSEL15
        LABEL
                 =[1,1]
        UIC
                -CRUED, RUED, RUED, RUED.
        ACCESS
        CHARAC
                a: [ ]
MCRDINS E15,27 PDFF
MORSEIX POFF
MCRORUN POFFS
ENTER FILE NAME FROM PEP, ENTER STOP TO TERMINATE
>DK: [100/1317777.DAT
WAS THIS FILE LOADED FROM TAPET (YES OR NO)
>NO
ENTER DESIGN FILE NAME
>E15,21 PACTS.DGN
DESIGN FILE IS BEING WRITTEN
DESIGN FILE HAS BEEN WRITTEN
ENTER FILE NAME FROM PEP, ENTER STOP TO TERMINATE
>STOP
PDFP -- STOP PACTS DESIGN FILE PROGRAM
MCROUNE POFF
MCR>REM PDFP
MCR>DMO DK:
FILACE -- DEO: ** DISMOUNT COMPLETE **
MCR>UNL DK
MCR>
```

INS PDFP MCR>FIX PDFP MCR>RUN PDFPS ENTER FILE NAME FROM PEP, ENTER STOP TO TERMINATE >85581.DAT ENTER DESIGN FILE NAME >E15,2JTEST.DGN ENTER CELL LIBRARY FILE NAME >E15,2JTRAINING.LIB DESIGN FILE IS BEING WRITTEN SPECIFY CELL NAME FOR BACKGROUND DATA FOR THE YEAR 1978 SPECIFY CELL NAME FOR BACKGROUND DATA FOR THE YEAR 1979 SPECIFY CELL NAME FOR BACKGROUND DATA FOR THE YEAR 1980 >1980BK *DESIGN FILE HAS BEEN URITTEN* ENTER FILE NAME FROM PEP, ENTER STOP TO TERMINATE >STOP PDFP -- STOP PACTS DESIGN FILE PROGRAM

36-Word List-directed File Format

A 36-word list-directed file has been created with an expiration date of ten years for the user. The maximum number of records that can be written on the file is 5000. If the user should need a larger file or more than one file, the MIPS CF command on the 1108 or the IN command on the PDP may be used, and the PACT36 dictionary specified, as shown below.

MIPS > CF

THE ENTRY OF A \$ SIGN WILL ABORT FILE CREATION WHAT IS THE NAME OF THE FILE TO BE CREATED? UP TO 12 CHARACTERS (A-Z, O-9, -)

MIPS > FILE NAME

SPECIFY THE TYPE OF FILE BY NUMBER 1-NAME-DIRECTED 2-LIST-DIRECTED 3-ON-OFF

MIPS> 2

SPECIFY THE MAXIMUM NUMBER OF RECORDS

MIPS > 5000

SPECIFY A READ KEY IF DESTRED

MIPS >

SPECIFY A WRITE KEY IF DESIRED

MIPS >

SPECIFY NAME OF PERSON RESPONSIBLE FOR THIS FILE

MIPS> DAVID SHIPMAN

HOW LONG IS THE FILE TO BE MAINTAINED - DAYS?

MIPS > 3650

SPECIFY A 66 CHARACTER DESCRIPTION OF THE FILE

MIPS > 36 WORD IDF FOR TRANSFER TO PDP VIA COM_LINE DOES A DICTIONARY GURRENTLY EXIST FOR THIS FILE?

MIPS > YES

SPECIFY NAME OF FILE

MTPS > PACT36

FILE SUCCESSFULLY CREATED

PDP 11/45 LIST DIRECTORY (DK) MCR>MOU DK: ZOVR MOUNT-**VOLUME INFORMATION** DEVICE =DKO ≕FILE 11 CLASS LABEL. -JSEL15 =[1,1] ACCESS = CRWED, RWED, RWED, RWED] HARAC == E3

- MCRDPIP PIP>DK:[***]/LI

MCR>LOA DK

DIRECTORY DKO: C15,23 6-SEF-79 09:39

UIC

TOTAL OF O. BLOCKS IN O. FILES

DIRECTORY DROSCIOO,13 6-SEP-79 09:39

```
--- 86041.DAT#1
                              122,
                                            30-AUG-79 12:47
                              122.
                                            30-AUG-79 12159
    86041.DAT#2
                                           04-SEP-79 10:11
04-SEP-79 10:22
04-SEP-79 10:34
 ____17777.DAT;1
                              116.
    17777.DAT#2
                              116.
   _17777.DAT#3
                              116.
```

TOTAL OF 592. BLOCKS IN 5. FILES

```
DIRECTORY DKG: [100,23
-6-SEP-79 09:39
```

```
--- FEF . FTN # 22
                                2.
                                               14-AUG-79 07:17
                                               14-AUG-79 07:18
30-JUL-79 15:46
   PEP.ODL;21
                                2.
 - DKCOPY.CMD#1
                                               30-JUL-79 15:47
30-JUL-79 15:48
14-AU6-79 07:18
   PEFLST, CMD # 6
  -PERF4P.CMD;2
  PEP.OBJ#11
                                              14-AUG-79 07:18
14-AUG-79 07:18
 - PEP+CMD;26
                                1.
   PEP.TSK#14
 GETFIL, OBJ;11
                                               14-AUG-79 07:18
                                               14-AUG-79 07:18
14-AUG-79 07:18
14-AUG-79 07:18
   GETFIL.FTN;15
                                6.
  -OUTPUT.OBJ;2
                                8.
   OUTPUT.FTN;20
```

TOTAL OF 136. BLOCKS IN 12. FILES

DIRECTORY DRO: C12,121 6-SEP-79 09:40

```
24-JUL-79 10:44
24-JUL-79 10:44
  SCANA.FTN;4
  -MOVEHR FTN#3
                            1.
                                         24-JUL-79 10144
24-JUL-79 10144
  PACKL.FTN#4
  SETERD FINIT
                            2.
  PDFP.FTN#145
                                         24-JUL-79 10:44
                            11.
                                         24-JUL-79 10:44
24-JUL-79 10:44
24-JUL-79 10:44
 -SCANA.OBJ:1
                            2.
  PACKL.OBJ#1
 -MOVCHR.OBJAL-
  PDFP.CMD#27
                                         15-AUG-79 12151
  SETCRD, OBJ;13
                                         24-JUL-79 10:44
  PDFP,OBJ#43
                            14.
                                         24-JUL-79 10:44
                                         24-JUL-79 10:44
24-JUL-79 10:44
 - PEFINE TSK#1
                            31.
                                      C
  PDFP.TSK#11
                            64.
-- FDFP . F4F#12 -
                                          15-AUG-79 12:51
```

------TOTAL OF 133. BLOCKS IN 14. FILES

-- FIF>CZ

MCR>DMO DK: F11ACF -- DKO: ** DISMOUNT COMPLETE ** MCR>UNL DK MCR>

267

INSTALL MIPS TASK ON PDP 11/70 USING DEC WRITER

```
>SET /UIC=[100,1]

OB:18:42 LOGIN USER
>@MIPSTASKS
>INS DP:[100,1]MIPS
>INS DP:[100,1]JOAP
```

UNIVAC TO PDP FILE TRANSFER (UPFIT) MODULE

The UNIVAC to PDP file transfer (UPFIT) module provides general MIPS data file transfer on tape between the UNIVAC 1100/80 and PDP 11/70 computers. Files are written using 1600 BPI - 9 track tape drives. UPFIT output tapes must be checked out of the central site tape library by the user for transfer to the PDP. Blank tapes may be checked out of the tape library for use by the PDP UPFIT module. Tapes output by the PDP UPFIT module must be logged into the central site tape library and a reel number obtained by the user prior to using the UNIVAC UPFIT module for PDP to UNIVAC transfer.

I. UNIVAC 1100/80

After entering MIPS in the usual manner perform the following:

- 1. Ready any files which are to be sent to the PDP 11/70.
- 2. Create or ready any files which are to receive MIPS data from the PDP 11/70.
- 3. Enter the commands: RUN UPFIT GO
- 4. Respond to queries from UPFIT. The UPFIT menu is:
 Select direction of file transfer
 - 0 Terminate Program Execution
 - 1 Get MIPS file from PDP tape
 - 2 Send MIPS file to PDP on tape
- 5. UPFIT will provide the user with a reel number for output tapes. It is the user's responsibility to make note of and retain this number for use when checking the tape out of the tape library.

II. PDP 11/70

Tapes must be physically mounted on the PDP 11/70 tape drive by the user. After a tape has been placed on the drive, set the tape density switch to 1600.

NOTE: The tape drive density switch MUST be set to 1600.

The user can now enter MIPS and:

- 1. Install any files which will be needed.
- 2. Enter the commands:
 RUN UPFIT
 GO
- Respond to queries from UPFIT. The UPFIT menu is: Select direction of file transfer
 - 0 Terminate Program
 - 1 Get MIPS file from UNIVAC tape
 - 2 Send MIPS file to UNIVAC on tape

For file transfer to the UNIVAC the tape written on the PDP 11/70 must be logged in at central site. The user should obtain the reel number assigned by the tape librarian for use as input to UPFIT.

E S ഗ 2 G S L O I a. Œ œ G 承米米

| [1, 1] | | œ) | W |
|--------------------|------------------|---------------------------|--------------------------|
| DESIGN FILE LOG-ON | UTILITY SEPUICES | REPLACE CELLS IN A DESIGN | TERMINATE DESIGN SESSION |

FORES QUALITY

Z 0 **(**I C O W ۵. S L Z O (6) M ***

ADDITIONAL FOR DESIGN EXISTING E RECALL DESIGN. IGDS ALLOWS THE USER TO LUCK OR TO CREATE A NEW

, THE USER IDENTIFICATION CODI ASSOCIATED UITH THE DESIGN MI EXISTING DESIGN, DEVICE AND UNIT S PN PN PN PN PN PN TO ACCESS AND THE D

000

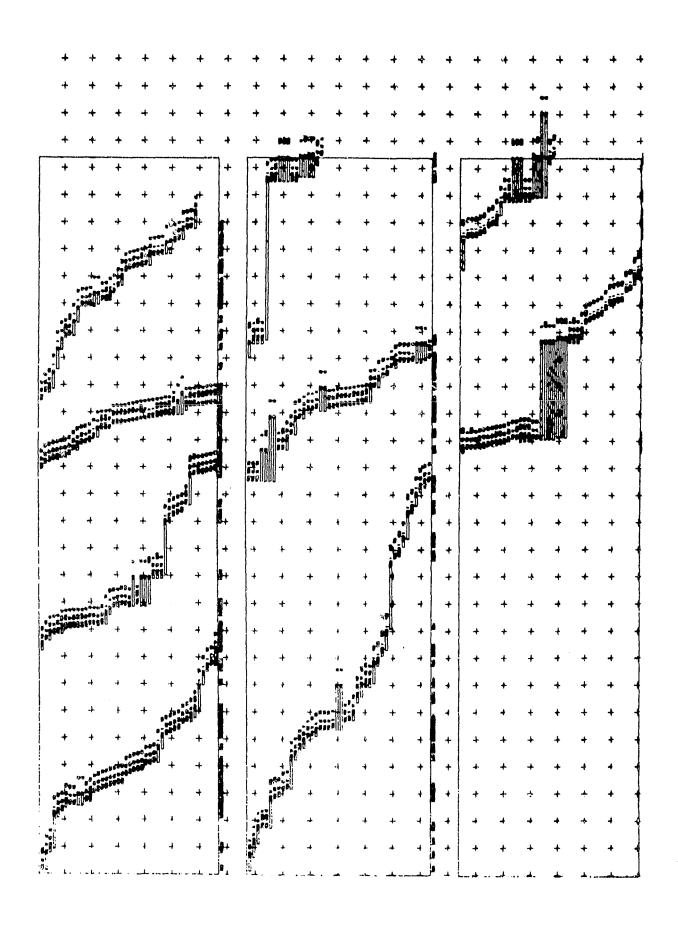
GROUP DEVICE AND UNIT GROUP NUMBER NUMBER WITHIN G DISK USEP USER PECCIME EXISTING DESIGN G RECHLLED, TO G E NAME (F), EXT [최 (강 [국 FH FH ASSOCIATED PRY NHEW THE DEFINE ITS

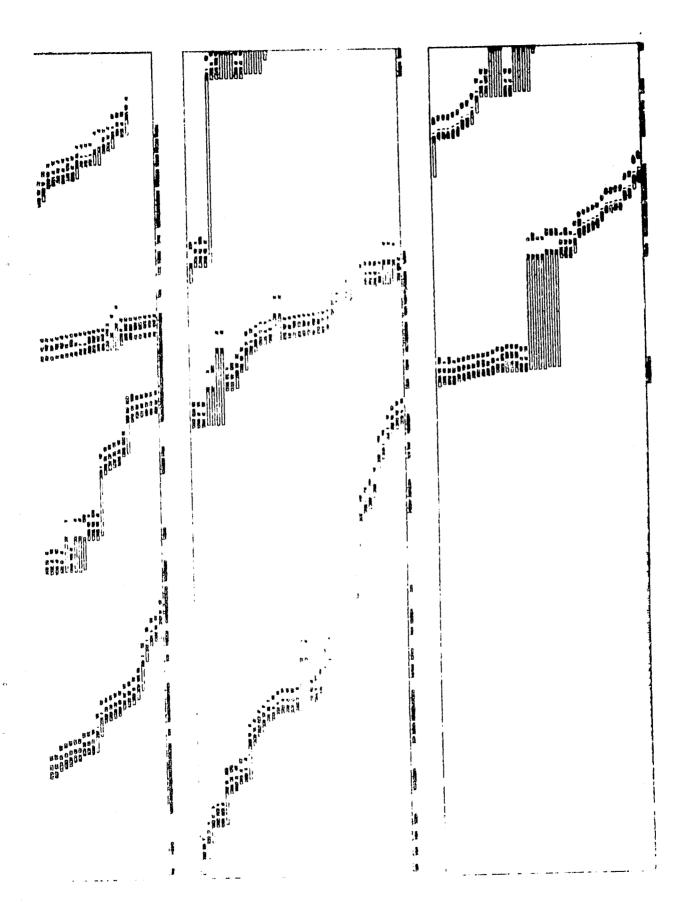
DDD: EGGG, UUUJFFFFF DPØ:[15, 2] PACTS.DGN E E I L1.1 ---1 Lt.

SIGN u 14 J u COERT

(<u>@</u> (

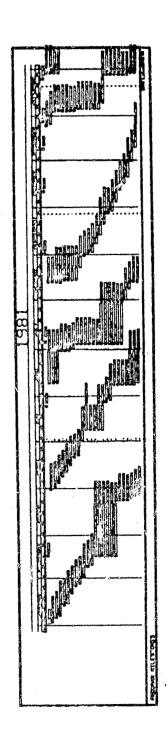
LEUEL PPIOR 9 RETURN

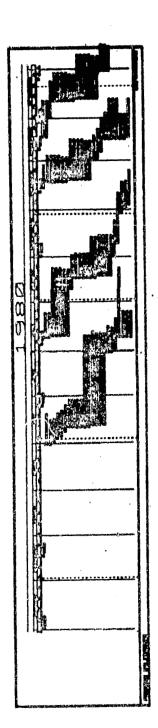


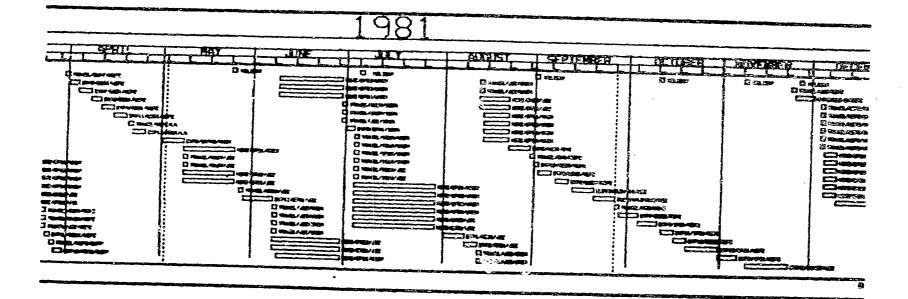


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| 5 | THIS ISS. HOWER | CHR COOSNI | TIRATE | | | | | | | • | | | | · | | · · · · · · · · · · · · · · · · · · · | | · · · · · · · · · · · · · · · · · · · | | | | | |







WAT IS THE NAME OF THE FILE TO BE CREATION
UP TO 12 CHARACTERS (A-Z, 0-9, -)
MIPS>PACTOF
SPECIFY THE TYPE OF FILE BY NUMBER
1- NAME-DIRECTED
3- ON-OFF

MIPS>3 SPECIFY THE MAXIMUM NUMBER OF RECORDS

AIPS>10000 SPECIFY A READ KEY IF DESIRED

RIPSYOF

SPECIFY A URITE KEY IF DESIRED

MIPS>0F

SPECIFY NAME OF PERSON RESPONSIBLE FOR THIS FILE MIPS>D.L.XH

DADUSHURBARS THE FILE TO BE MAINTAINED - DAYS?

MIPS>365

THE FILE SPECIFY A SE CHARACTER DESCRIPTION OF MIPS>OUTPUT FILE OFOR SL1 APPENDIX M
PROGRAM LISTINGS

PAYLUAU CPER TRAINING DATA HASE. PACTOR

SELECT FROM THE FOLLOWING: UPAN BOIDS NIAN BHT UT PRUTAR C LIST ALL OF THE FOLLOWING ABSTRACT ENGINEERING INFORMATION PROGRAMMING INFORMATION USER'S INFORMATION END

ALL PACTAR PACIEI PACIPI PACILL

UPDATE PALTAS

PAGIDS ABSTRACT COSTATINE DATA ES DISPLAYED IN MATRIX FURH DU THE ALTERNATE PSINT FILE.

PACTOR IS AVAILABLE AT ANY SITE AND IN BATCH MODE. THE ONLY OPTION WHICH IS RESTRICTED IS THE DETAILED GROUP AND THE DATA WHICH REGUIRES

A 17 INCH TEXTRONIX.
RESPONSIBLE ENGINEERS: DAVID SHIPMAN EL12 453-4745

END

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1

UPDATE

PACTOR ENGINEERING INFORMATION

ELOCK PIAGRAM OF DATA FILE STRUCTURE (AAME-CIRECTED) THERE CAU HE AS MANY AS 200 GROUPS DER MISSION , AND 10 TAE'S PER GROUP. *********

MISSION SHOUP SPOUR CRODE SEDUP * TAE * * TAE * * TAT * * TAE # * TAE *

UPDATE

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PACTPI

PACTEI

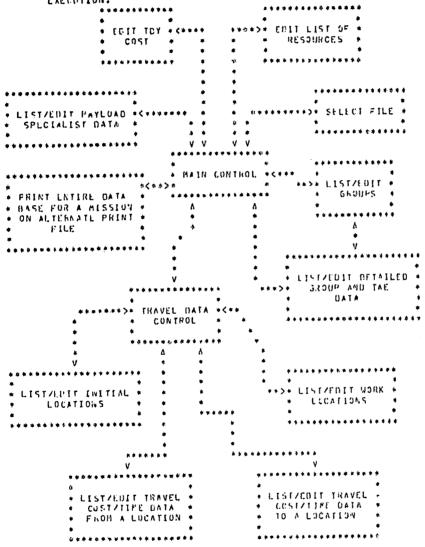
PACTUS PROGRAMMING INFURRATION

PACTOB PERFORMS DATA INPUT AND FOITING OF A PACT DATA BASE FILE TO BE USED IN MODULE PACTS. TATA UNION CAN BE INPUT 38 FOITED ARE THE LIST OF SPOUPS. LIST OF PAYLOAD SPUCIALIST AND THEIR PHITIAL LOCATIONS. LIST OF BURK LOCATIONS. LIST OF INITIAL LOCATIONS. TRAVEL COST AND TRAVEL TIME DATA TO AND FROM A LOCATION, DETAILED SRODE AND THE PATA, LIST OF RESOURCES, AND THE COST FOR LOCK LOCATIONS. SPECIAL PROVISIONS ARE INCLUDED TO INITIALIZE AN EMPTY

Ordenal, PAGE IS G. F. OF QUALITY

DATA FILE. THE PODDLE INCLUDES AN OPTION TO FRINT ON THE ALTERNATE PART FILE THE ENTIRE DATA HASE: FOR A SPECIFIED MISSION, IN A SHALLIAK DISPLAY THAT IS USED FOR INFOLING AND EDITING THE DATA, THE ONLY EXCEPTION IS THAT THE TRAVEL CUSTATIBE DATA IS DISPLAYED IN MATRIX FORM ON THE ALTERNAST PRINT FILE.

A. PROSEAU BLOCK DIACRAM
RELOW 13 & MILOCK DIAGRAM, EACH MEDCK IS TUTAL RESPONSIBLE FOR
A SPECIFIED FUNCTION. THE USER CONTROLS THE SECHENCE OF
EXECUTION.



B. COMPUTER CONFIGURATION
LANGUAGE : FORTRAN
COPF REQUIREMENT : 27-551 k

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```
INPUT FILES
                           : A PACT DATA HASE NAME-DIRECTED FILE
                             ATAR TIGANIUM 1 OF
PROGRAM KOUTINES
                           : BLUCK-DATA - INSTIALIZE COMMON REDCKS
                           : CSLIST - LOADS DATA FROM A LOACTION FOR DISPLAY
 ( NAMEZPAGTOR )
                                           OF TRAVEL COSTATINE DATA IN MATRIX
                                           FORM
                             CSTIME - LOADS DATA PROP A LICETION
DATALT - LOADS NECESSARY DATA NECOED FOR
MATPLY DISPLAY IF THAVEL COST AND
TRAVEL TIME OATA
DELSRO - CELETES SPECIFIED GROUP AND ITS
                                           TAES FRUM FILE
                             DELLOC - DELETES A LOCATION FROM ALL ARRAYS

DE COSTATINE DATA AND LIST OF LOCATIONS

DELTAE - ERASES A TRE FROM A GROUP
                             DISPLY - DISPLAYS DETAILED GROUP AND THE DATA
                                           ON FRIMARY PRINT FILE
                             OKO
                                        - DECCRES FOITING COMMANDS DESCRIBED
                                       IN SUBRUUTINE DETICM

PRINTS TRAVEL COST AND TRAVEL TIME
DATA ON ALTERNATE FRINT FILE

MAIN DRIVER FOR EDITING LIST D=
                             DMAT
                             EBIUTL -
                                           INITIAL LOCATIONS
                             EDIT
                                        - UPDATES GROUP ARRAY IN CORE
                             EDITAE - UPDATES THE ARRAY IN CORE
                             EDITRS - LIST/EDIT RESOURCES
EDITAE - MAIN CONTROL FOR EDITING DETAILED
                                      GROUP AND THE DATA

THE N DENU AND CHIVER OF ALL TRAVEL
AND COSTATIME DATA
                             EDTRYS - MAIN DRIVER FOR COSTATINE CATA FROM
                                           A LOCATION
                            EDTRYT - MAIN PRIVER FOR COSTATINE CATA TO A
                                          LOCATION
                             EDURKE - MAIN DETVER FOR EDITING LIST OF WORK
                                          LOCATIONS
                             INGRO
                                       - CREAT NEW GROUP IN FILE
- INSERTS AND DELETES WORK LOCATIONS
                                           FROM TOY ARRAY
                            LOTAE - LOADS THE ARRAYS INTO CORE
LGROUP - LOADS GROUP DATA INTO CORE FOR A
                                          SELETED MISSION ID.
                            LISTOR - MAIN DRIVER FOR LISTING CO-ENTIRE
DATA BASE
LISTUX - DOES MATRIX DISPLAY OF TRAVEL
                                          COST AND TRAVEL TIME DATA
                            LOADER - LOAD LIST OF GROUPS FOR A SPECIFIED
                                          MISSION ID
                            LOADEN - LOADS INITIAL AND WORK LUCATIONS
                            LOADPY - LOADS PAYLOAR SPECIALISTS AND THEIR
                                          INITIAL LOCATION IN CORE
                           LUADRS - LOADS RESOURCES
LOADTY - LOADS TOY COST FOR WORK EDCATIONS
LOCARY - PUTS A LOCATION WITH ZERO COST AND
                           LOCARY - PUTS A LOCATION WITH ZERO GOST AND TIME IN ALL PRESENT COSTATINE DATA ARRAYS AND LIST OF LOCATIONS LOCATION CF CHROCKS IT DETERMINS IF THE DATA ITEM IS GROUP OF TAFF ITS LOCATION IN THE ARRAY, AND MAYIMMA UPOR LIGHT. HISTO IN
                                          AND MAXIMUM WORD LIMIT. USED IN
```

PAGE 13

(

C-4

LTAE

SROUPS

PETAILED SHOUP AND THE PRITING.

- MAIN CONTROL FOR EDITING LIST OF

MAIN - MAIN MENH AND CONTROL FOR MODULE OPTION - SASIC EDIT OPTICAS DISPLAYED

: PAYSPO - MAIN DRIVER FOR PAYLOAD SPECIALISTS

```
AND THEIR INSTIAL ECCATION EDITING
PERDUP - PRINTS LIST OF SHOUPS ON ALTERNATE FRINT FILE
PRINTS LIST OF INITIAL LOCATIONS ON ALTERNATE PRINT FILE

PRAYSP - PRINTS PAYLOAD SPECIALIST ON ALTERNATE
               PRINT FILE
PREADA - AVOIDS CARRIAGE RETURN AND SIVES
               A PPONTER ON LINE TO BE FOITED
PRES
           - PRINTS RESOURCES DALY DW ALTERNATE PRINT FILE
PRINT - DISPLAYS DETAILED GROUP AND THE DATA
               ON ALTERNATE PRIAT FILE
PIDY - PRINTS TOY COST FOR WORK LOCATIONS ON ALTERNATE PRINT FILE
PURLOG - PRINTS LIST OF WORK LOCATIONS ON ALTERNATE PRINT FILE
ROOPT - INTERPUTES COMMANDS USED WITH CURSORS
UP IN GROUP AND THE DETRILED EDITING
            - UPDATES GROUP AND THE DETAILED DATA
SAVE
               ON FILE
              SPLECT PACE DATA BASE FILE
SELECT A GROUP IC
SELECT LOCATION, INITIAL OR WORK
SLFILE -
SE SRO
SLLOC
SUPIS - SELECT MISSION IC

FOY - LIST/FOIT THY COST FOR WORK LOCATIONS

TOLGAD - LOADS DATA TO A LOCATION

TUTOR - DISPLAY OF INSTRUCTIONS FOR DETAILED
               GROUP AND TAF EDITIAG
```

C. CREATION OF ASSOLUTE ELEPENT BMAP-IL PACT-MAP-PACT-GO LIA MIPS+ILIB+SYSS+MS=CS SEG MAIN IN MAIN. REOCK-DATA. THEREX. ADEQUE. FERST SEG TER* (MAIN) IN SII. SOUT-GIN. DENE . SETILE IN PAGIT+CHRSI7+TAGS:RDATA IN BOLUIT . NEWE IN . ANSTR . GINP . MIPSER SES AFFITERS IN LINE . UELSHO . PAYSPC . INGRO IN LISTUS IN EDTAE 589 C1++(C) IN DISPLY SEG (2*+(C) IN + READA . ROOPT . LOCATN . EDIT . EDITAE SEG C3++(C) IN SAVE + DEL TAE SEG PARCTER) IN FOTAV. EDINIL . EDWKKL . DELLOC. EDTRVI. EDTRV-. INTOV SES EFFITEKT TH TOY SES FORTER) IN COLTRS SES MX++ CMAIN+ IN LISERX DATALT SES INTTOCTER) IN INITIAL

D. DATA BASE FILE STRUCTURE

Ĺ

TYPE OF FILE: NAME DIRECTED FILE
ALL ATTRIBUTES AND DATA ARE IN ALPHA-AURIRIO FILM
THE FOLLOWING REPRESENTS THE ATTRIBUTES OF THE

N-D FALE AND THE RETURNED DATA IN THE FORM: ATTHIRUTE = DATA

HISTON/LIST = LIST OF MISSIONS (R) WORDS)

2. (MISSION ID.) # LIST OF GROUPS PER 415SION (200 WORDS)

NUMBER OF TAE'S (1 WORD) 3. (SHOUP ID.)

ICHCH I) BAT TO BRYT

EFFECTIVE DATE (2 WORDS) TOTAL OF IN THE FORM MEJDDJYY

DESCRIPTION (10 WORES) 63 WORDS

> AUGIDANCE WINDOWS (48 ACADS) THE FORM MAZODIYY TO MAZDZIYY (12 WINDCHS+2 WORDS FER LINDOW)

SROUP ID. (I WORD)

4. (SHOUP 10.)/(TAE NO.)/THE = DESCRIPTION OF THE (6 WORDS)

CORCH IN BODD ACTTADDA

BELAY EPIN AND MAX 3 (2 NORGS)

TOTAL OF TAE IU. (1 WCKD)

56 WORDS (CHUALIDA (1 WORD)

RESOURCES (5 WORDS)

PRIORITY (1 WORD)

EGUIPMENT (5 WORDS)

PAYLOAD CREWNEN 110 WORDS)

AVAILABILITY WINDOWS (24 HORDS) IN THE FORM MM/OD/YY TO MM/DD/YY (A WINDOWS+ 2 WORDS PER WINDOW)

- LUCATRAINTEAL = LIST OF INITIAL LOCATIONS (30 GORDS)
- H LIST OF FORK EDUCATIONS (AD WORDS) LU CATN/WORK
- flucation id.)/FROM = LOCATION TO.COST.TIPE (270 WORDS)
- A. (MISSION ID.) PRAYSPO = CREUMEN . HOME LOCATION (PC NORDS TOTAL)
- 7. (HURK LOCATION 10.)/TRY = WORK LOCATION .TRY COST (120 NORDS foral)

THE ATTRIBUTES IN PARENTHESES INDICATE VALUES WHICH WILL CHANCE-SUCH AS THERE MAYNE SEVERAL MISSION ID. S
AND ONE AUST BE USED AS AN ATTRIBUTE IN PLACE OF THE
ENTRY IN THE PARENTHESES. HOWEVER, SUCH ATTRIBUTES AS MISTONYLIST ARE HARD-WIRED AND ARE NOT CHANGED.

610 UPDATE

PACTUL

RESTRICTIONS

OUTPUT

PACTOR USER'S INTORMATION

1 DETAILED SHOUP AND THE DATA CAN ONLY

2 SE EDITED ON A 19 INCH TERTRONIX

2 CAN SPECIFY OPTION TO PRINT COMPLETE

```
INPUT
                                : ALL TUTORTAL USING STANDARD INPUT IMAGE
      SAMPLE RIN
     PAYLOAD CHEN TRAINING SCHENULER BATA BASE ( PACTON )
       3 - TEPHINATE
      1 - SPECATY PACTS DAYA DASE TILE
2 - EDIT LIST OF THE BROKPS
3 - EDIT DITAILED TRAINING ACTIVITY ELEMENT (THE) DATA
4 - EDIT TRAVEL LOST AND TRAVEL TIME GATA
5 - EDIT PAYLOAD SPECIALIST DATA
6 - EDIT TDY COST FOR HORK LOCATIONS
       7 - ENTY LIST OF RESOURCES
       8 - LIST PACTS INFUT DATA BASE
 HIPSS
       IF D IS SELECTED. USER IS RETURNED TO MIPS EXECTIVE
       IF I IS SELECTED. USER SPECIFIES BATA BASE FILE TO READ AND
                                 WHITE DATA
       IF 2 IS SELECTED. USER CAN FOLT LIST OF GROUPS FOR SPECIFIED MISSION USING THE FOLLOWING COMMANDS:
                    INSERT HEW
                    INSERT BEW AFTER CLD
                    DELLTE OLD
                    PEURAU
                    "INSERT NEW AUGS NEW VALUE AT THE EAU OF THE LIST. "INSERT NEW AFTER OLD" ADDS NEW VALUE AFTER OLD IN
                           THE LIST
                    *DELETE OLD! DELETES THE OLD ITEM FROM THE LIST
                           AUD PACKS THE LIST
                    PRODPAMY SEBRANS THE SCREEN WITH THE NEW LIST BLANK INAGE PETURNS YOU TO LAST MEAU THIS OPTIOS HAS A SPECIAL COMMAND.
       NOTE :
                       ************
                            EDIT OLD
                    WHICH ALLOWS THE HISER TO GO FROM THE LIST
                    OF SPOUPS DIFFECTLY TO THE BETATLED ENDUF
AND THE DISPLAY TO EDIF THAT DATA AND THEN
                    BETURN TO DISPLAY OF LIST OF CHOURS
       IF 3 IF SELECTED. USER CAN EPIT GHOUP PATA AND THE PATA FOR
SPECIFIED SHOW USING THE POLLOUTIS INSTRUCTIONS
 ENSTRUCTIONS FOR EDITING A SKOUP OF TAKS
LOCATE CROSSHAIRS ON VALUE TO BE CHANGEU, EATER CONTROL CHARACTER
 AND RETURN KEY
  (IF GROSSBALRIS) ARE NOT VISIBLE THEY MAY BE OFF SCREEN - TURN THUMB
   WHEELS ADDIOR PRESS RETURN KEY)
   THE FOLLOWING CONTROL CHARACTERS ARE VALICE OTHERS WILL BE IGNORED
                   - EUTER NEW VALUE OVERSTREKING OLD VALUE
                  - ENTER NEW VALUE AT HOSTOM OF SCREEN - ONLY ALL DATA FOR THIS FIEM
    0 08 3
       OR 7 - OMIT ALL DATA FOR THIS THEM

R - RELEAN LETTER SCREEN

S - RETURN TO PRECEDING MEDIT

1-2---2 - REPRAM SCREEN STARTING WITH INDICATED TAE

A - ADD OR INSERT ANOTHER THE TO THIS GROUP

GUESTION SUBJECT THE MILL BE ASKED AND SCREEN WILL BE REDRAWN
                  - RELETE A TAE ( UNISTING SUPER TAES WILL BE ASKED )
- WILL REDISELAY THIS PAGE
                     QUESTION * WHICH BRODE BEXT! WILL BE ASKED NEXT CROFE TO BE DISPLAYED
 NOTE: WHEN EDITING RESURCES, LOUIPLENT, OR CREWAND, THE ENTIRE
```

: DATA IN TILE FOR A SPECIFIED MISSION.

6,

STRING MUST HE ENTERED SEPARATED BY SPACES WHEN LOTTING A DATE THE MOUTH, DAY AND YEAR MUST AL ENTERED (PENDONYY)

IF 4 IS SELECTED. THE HSPR SEES THE FOLLOWING MENU: TRAVEL COST AND TRAVEL TIME GATA

O - RETURN TO MAIN CONTROL

I - EUIT LIST OF INITIAL LOCATIONS

2 - FOIT LIST OF WORK ECCATIONS 3 - EULT TEAVEL COSTATINE DATA TO A PARTICULAR ESCATION 4 - EULT TRAVEL COST/TIME DATA FROM A PARTICULAR LOCATION MIPS>

IF C IS SELECTED, USER IS RETURNED TO THE MAIN MENU

IF 1 IS SELECTED. BSER CAN EDIT INITIAL LOCATION USING THE SAME COMMANDS AS OPTION 2 OF THE

IF ? IS SELECTED OFFER CAN FOIT LORK ECCATIONS USING THE SAME COMMANDS AS OPTION 2 OF THE PAIN FEND

IF 3 IS SELECTED. USER CAN FRIT THAVEL COSTATINE DATA TO A PARTICULAR LOCATION USING THE FOLLOWING CUMBANUSE

ENTER REDRAW TO RECHAW LUIT VIA OLO T COST TIME

> *OLD = COST TIME * PUT AS THE COST AND TIME VALUES FOR OLD IN THE DATA FASE. IF COLY ONE VALUE IS SUPPLIED IF IS TAKEN AS THE COST VALUE AND TIME DATA IS NOT FFECTED.

IF A IS SELECTED. USER CAN FOIT TRAVEL COSTATIME DATA FROM A PARTICULAR LOCATION USING THE CONNANDS ARRVE.

IF 5 IS SELECTED. USER CAN EDIT THE FAVLDAD SPECIALIST LIST AND HIS INITIAL LOCATION USING THE SAME CUMPANOS AS OPTION 2 PLUS :

****************** PLE = INITIAL LOCATION

WHICH ALLOWS THE USER TO INPUT THE IMITIAL LOCATION FOR AN ALREADY EXISTING PAYLOAD SPECIALIST

IF 6 IS SELECTED. THE USER CAN EDIT THE THY COST FOR WORK LUCATIONS USING THE FOLLOWING COMMANUS:

ALL # COST REDRAW

ALL = COST WILL SET THE TOY COST FOR ALL WORK LOCATIONS TO THE VALLE OF COST

IF 7 IS SELECTED. THE USER CAN EDIT THE LIST OF RESOURCES USING THE SAME COMMANDS AS OPTION 2.

IF 8 IS SELECTED: THE USER RECEIVES A COMPLETE ALTERNATE PRINT FILE OF HIS SPECIFIES FILE AND MISSION. THE FORMAT IS VERY SISTILIAR TO EDITING DISPLAYS EXCEPT TRAVEL COSTATIPE DATA IS PRINTED IN MATRIX FORM. THIS OPTION DOES NOT TAKE

HOVE THAN 3 MINUTES HALL CLOCK TIME AT A DEMAID SITE.

UPDATE

SPACTO

PLESS ASSTRACT

THE PAYLOAD CREW THATE IND SCHEDULES GLACTS) IS DESIGNED TO SCHOOLE CREW TRAINING ACTIVITY EXPHRITS CIAPTS) FOR OVE OR MORE SCHOOLE CARM TRAINING ACTIVITY ELEMENTS (TEP'S) FOR ONE OR MORE SPACELAR RISSIONS. LYTLIZING A DESCRIPTION RAPER SELECTION PROCESS: PACTS GENERALLS A FAMILY OF SCHOOLIGN AND SELECTS THE BEST ON THE BASIS OF USER DETERMINED PROUPTITIES. SICH AS SCHEDULE COST AND THE MASER OF ACTIVITIES SCHEDULED. AFTER SELECTION: THE'S ARE SCHEDULED AT THE EARLIEST OPPORTUNITY TIME, RESCHOOL AND TRAINE COASTHAINTS ARE RET.

PACTS ACCEPTS IMPUT FROM THE TAR DATA MASE CREATED BY THE PACTOR

MODULE. WHICH CAN BE ACCESSED FOR LOTTING FIRPOSES PHOR PACTS. SCHEDULE CONTROL AND MISSION LIVEL DATA MAY HE TAPHT FROM THE TERMINAL OR STORED AND RETRIEVED FROM A MIPS NAME-DIFFCTED FILE. IFIS DATA MAY BE EDITED

TO TEST ALTERNATIVE SCHEDULGS.

PACTS PROTUCES A SCHEDULG SUMMARY TABLE FOR DISPLAY AT THE TERMINAL AND SCHEDULG TABLESTION ON THE ALTERNATE PRINT FILE. THE MODULE ALSO SENERATES A LIST-DIRECTED AND AN ON/OFF FILE. THE USER MAY TRANSFER TO THE PACTES MODULE TO DISPLAY THESE FILES.

PACTS NAY BE REN AT ANY TERPINAL OR IN FACTOR MODE.

PROTUCTION OF TAXABLE TO THE PACTOR OF THE PACTOR OF THE PACTOR OF TAXABLE TO THE PAC

RESPONSIBLE ENGINEER : DAVID SHIPMAN EL12

PACTS ENGINEERING INFORMATION

DOES NOT APPLY TO THIS MODILE

PACTS PROGRAMMING INFORMATION

THE PACTS SCHEDULING MODULE (PACTS) IS DESIGNED TO INTERACT WITH THE REPORT SEMERATOR (FACTOS) AND THE BATA BASE PODULE (PACTOS).

TRANSFER TO THESE MODULES IS EFFECTED BY SETTING THE VALUE OF "SOTO" IN THE FILE "PIPS-TI". PACTS ALSO PEADS THE FILES PAUDULED BY THE "PACTOB" MODULE AND LODGES THE DATA INTO AN NIRAW FILE. THE MODULE SAVES ITS CONGRUER OF GOOD THE EXIT SO THAT THEY MAY BE RESTORED UPON REMENTRY FROM THE OTHER MODULES. THE PACTS SCHEDULER ALSO CAN EDIT CONTROL AND MISSION LEVEL PATA.

A. PROSPAM SLOCK DIAGRAM BELOW IS A SIMPLIFIED PLOCK CINTRAM SHOWING THE CAPAPILITIES OF THE MODULE

> O - TERMIDATE 1 - CREATE A PERMANENT MIPS FILE
> 2 - THANSFER TO DATA MASE EDITOR (PACTOR)
> 3 - SETUPPEDIT INPUT DATA SSSSSS >>>>>>>>> N - GENERATE TRIAL SUMEDULES AND SELECT BEST + +
> 5 - DISPLAY SUMMARY OF MIST SCHEDULE + +
> 6 - FABULATE SCHEDULE AND DRIFE DUTPUT FILE >>>>>>>> 7 - TRANSFER TO REPORT SEVERATOR (PACTES) A - SAVE DATA FROM THIS CASE FOR FUTURE USE C - RETURN TO MAIN CONTROL 1 - LUAD DATA FROM FREVIOUS CASE - LOAD RESCREEL AND TRAVEL COSTATIVE DATA 3 - EBIT CONTROL DATA - EDIT TOLK DEFIRITIONS

> > 285

```
5 - FOIT WORK DAY DURATIONS
         A - FOIT HISSION LIST
F - FOIT LIST OF THE GROUPS
F - FOIT FIXED ORDER LIST
     . IC - LOAD TAP FUBLIS
          SELECT PRINT AND FILL OPTIONS.
DEFAULT PRINT OPTION T
               D = NO PRIAT OUT
               1 = PRINT ON TIMES ONLY
> = PRINT ALL TIMES
          DEFAULT FILE OPTION

2 = NO FILE

1 = URITE LDF FILE

2 = WRITE UNVOFF FILE

3 = WRITE BOTH
COMPRIER CONFIGURATION
     LANSHAGE
                                         : FURTRAN
     CORS REQUIREMENT
                                          : NAME-DIRECTED FILE CONTAINS MISSION
                                            DEPENDENT DATA AND THE MODELS
LIST-DIMECTED FILE CONTAINS SCHEDULE
     OUTPHIEILES
                                             TIME . RESURCE . AND TRAVEL COSTATINE
                                            DATA.
ON/OFF FILE CONTAINS CREW ACTIVITIES
               *** SCHEDULING ROUTINES/FUNCTIONS ***
- MAIN DRIVER FOR SCHEDULING CPERATICAS
- DETERBINES WHEN A TAK CAN BE SCHEDULED
    HEART
    CHECK
    CHECKS - CHECKS CREW AND BESPUTCE AVAILABILITY
    CHECKY - CHECKS TRAVEL TIME.

CHECKY - FIND A VINDOW FOR SCHEMULING A TAE

CKOREW - RECOVERS THE CREW IN USE FOR AN EVENT

DATES - FIND GRECORIAN DATE: CORN CAY, OR CALENDAR CAY
                    AND CHECK FOR A HOLIDAY
                   POSTANTO SCHEDULE AND PRINT EVALUATED STATION
                    SELECTS THE NEXT FIXED ORDER SHOUP FOR ATTEMPTED
    FIXED
                SCHIOULING
- INITIALIZES INTEGER FIXED ORDER ARRAYS
- MAIN DEIVER TO GENERATE RECEON SCHEDULES AND SELECT
    FIXZZ
    MC
                    THE SIST
                - SCHEDULES TIXED OPDER GROUPS
    SCHE
                - SCHEDIFICS RANDOM ORDER GROTIPS
     SCHR
    SCHE - SCHEDNICS RANDOM DIRECT SHORTS
SCHOOL - CALCULATES TOTAL COST OF A SCHEDNER
SELECT - RANDOMLY SELECT THE BEXT GROUP FOR ATTEMPTED SCHEDULING
TOYOST - RETRIEVE THE THY COST FOR A JIVEN EDUATION
TRAVET - FINE THE TRAVEL COST FROM CAE EJOATION TO ANOTHER
                 ***** INTERFACE ROUTIVES *****
     MAIN - MAIN CONTROL FOR THE MODULE
MSG - ARSIGN TEMPERACY FILES
BLOCK-DATA - INSTITUTE COMPON SERVICES
    MAIN
                       - PLITERMINE START IND STOP TIMES FOR TRAVEL AND CHECK ..
```

" (Flax)

```
FOR IMMEDIED HILLDAYS
CONVENT
                   CONVERT PINDER PERINITIONS TO CALENDAR DAYS
DKU
                - DECOME EDITING COMMANDS
                - DISPLAY AND SELFCT MAIN PENU CHICAS
- DISPLAY AND SELFCT PRINT AND SUPPUT FILE OPTIONS
CRIVER
DUAP
EDIT FU
                - EDIT FIRED GREEK GROUP LIST
- EDIT MISSION LIST AND LOAD MISSION DATA
EDIT PS
                - EDIT PAYLOAD SPECIALIST LIST AND THEIR INITIAL
                   LOCATIONS
                - EDIT TOUR DECIVITIONS
- EDIT WORK DAY DURATIONS
EDIT TL
EDIT WU
LRRUPS
                   PRINT MESSAGE IN A FRRUK MAS COCUANID DURING
                   SCHEOUL (NS
EVO
                 " RECOVERS SHOUP! TAF! CREW USED AND RESOLACE USED
                   FOR AH EVENT
                FOR AN EVENT

INITIALIZE FIXED SCREEN SCRUP CATA AND CHECK IF
FIXED GROUP AS THE EVENT FROM THE EVENT TIMELINE
WHICH FULLOWS A SPICIFIED TIME
SET THE FIRST EVENT FROM THE EVENT TIMELINE
SET THE NEXT EVENT FROM THE EVENT TIMELINE
DISPLAY AND SELECT INFHTYPRIT SUB-MEAU SPITONS
LOAD THE OATA AND STORE ON NIRAM FILE
PRINT TIMELINE TORM TORM OF LETTE LIST-DEPECTED
FOEC
SETST1
GL TFT1
SETNT1
INPUT C
INPUT I
                - PRINT TIMELINE TABULATION AND WATTE LIST-DIRECTED
LUFW
LOAD C
                 - LOAD INPUT DATA FROM A PREVIOUS CASE
                - LOAD TRAVEL AND RESOURCE DATA
- WRITE OBJOSS SILE
LOAD T
OMOFFW
REINST
                - RESTORE MODULE STATUS
RLD
                - RELOAD THE BEST SCHEDULE
SAVE
                   SAVE MODULE STATUS
                - SAVE IMPUT DATA FROM THIS CASE
- EPIT NO. OF SCHEDULES TO ATTEMPT, RANDOM NO. SEED AND EVALUATION PRIORITIES
SAVEC
SE TUPS
508 W
                   SUBTRACT AVOIDANCE WINDOWS FROM AVAILABILITY
                   WINDOWS
TABLES
                 - DISPLAY SUMMARY OF TAE'S SCHEDULED
                - READ TIMELINE AND CALCULATE TRAVEL-
- INSERT TRAVEL INTO TEMPORARY FILE
TRAVEL
TRVSCH
                - SAVE COMMON PLOCKS
- RESTORE COMMON PLOCKS
WRITE?
READS
                - WRITE TRAVEL RECORDS IN TEMPORARY FILES - WRITE THE RECURDS ON TEMPORARY FILES
WRTAV
WRTEMP
           **** TIMELINE IVO SUBPOUTINES/FUNCTIONS ****
BUF NO
          - FIND BUFFER CONTAINING A DESIRED TIME POINT OR BUFFER
          AVAILABLE FOR SPLITTING - WRITES OUT ALL UPDATED SUFFES DATO THE TIMELINE AND
CLUSE
             CLOSES TIPELINE FILE
             COPIES THE FIXED ORDER SCHEDULE DATO A TIMELINE FILE
COP YF
              FOR RADBON ORDER SCHEPHLING
             RETRIEVE AN EVENT FROM THE TIMELINE WHICH IMMEDIATELY
             PRECEEDS A SPECIFIED TIME
GETAT - RETRIEVES THE NEXT EVENT FROM THE TIMELINE TASERT - INSERTS A NEW TAX PERSONANCE INTO A SIMELINE FILE ISERCH - BINARY SEARCH TO LOCATE A RECORD IN THE INDEX FOR A
             SPECIFIED TIME
BINARY SEARCH TO LOCATE AN EVENT JUST PRECEDING A
KSERCH -
             SPECIFIED TIME. IF COUNT TIMEPOINS AND FOUND IT SELECTS
                  FIRST
LSERCH -
             BIMARY SEARCH TO LOCATE AN EVENT JUST PRECEDING A
              SPECIFIED TIME. IF FOUND TIMEPOLVES ARE FOUND, IT
              SELECTS THE LAST
```

€,

OPEN

- OPEN AN EVENT TIMELINE TILE

READN - READ IN A BUTTER

```
PCADE - RESTORE SCHEDULE INFORMATION
FILLORD - LORDS THE DESIRED MINERS LITH NEW DATA AND EF BY IS
AN UPDATE FIRST WRITES OUT
- SPLITS A FULL DUTFER BY MOVING HALF OF BY INTO AN EMPTY
RUTTER
WHITES - WRITE OUT A BUTTER
WRITER - SAVE SCHEDULE INFORMATION

REATION OF ANSOLUTE ELEBENT
```

C. CREATION OF AUSOLUTE ELEMENT AMAP, EL PAC-HAP, PAC-30 LIE BIFS+ILIS+SYSI+FSFC+ SEG MAIN.BLUCK-HATA.CCC.STATE.ADEOUT SES CREATE . CINTERACTI IN CREATE SEG LOT-DIGT++ (CREATE)
19 LOMDIC
SEG NOTHERASE++ (CREATE) IN DANE SEG STARY-STOP++(INTERACT) SEG START++4START-STOP)
IN ASSTREINST+INITE SEG STOP++(START-STOP)
IN SAVE-DBN#+SAVEC
SEG INITIALIZE++EINTERACT) IN INPUTE SEG CONTROL . (INITIALIZE) IV LUNDC+LOAD-TRAVEL
SES MUDELS++(INITIALIZE)
IN LAPUT-TAE+CONVERT
SES DISPLAY++(INTERACT) IN RELOAD-HEST SEC TAPHLATION* + (DISPLAY) IN TABLES
SEC FILES+ (DISPLAY)
IN EVO+DUMP+TRAVEL SES LUFFICFILES) IN LOTU SES ONOTTO (FILES) IN 010==4 SES PROCESS++ (MAIN)
IN CHECK+INSERT+HEART 565 FIXED++(FROCESS) 14 5CH-F+OPEN SEG RANDOM++(PROCESS)
IN HOME-CARLO+SCH-R+GLOSE+EVALUATE

D. INPUT FILE STRUCTURE

TYPE OF FILE: NAME DIRECTED FILE
ALL ATTRIBUTES AND DATA ARE IN ALPHA-NUMERIC FORM
THE FOLLOWING REPPESENTS THE ATTRIBUTES OF THE
N-D FILE AND THE RETURNED DATA IN THE FORM:
ATTRIBUTE = PATA

- 1. MISION/LIST LIST OF MISSIONS (PC WERDS)
- P. (MISSION ID.) = LIST OF SPOUPS FER MISSION (PCC MORDS)
- 3. (Shoup ID.) = NURBER OF TAETS () WORD)

CONCW IS SAT TO STYT

e effective date to world)

?.

AVOIDMECT UTWOOMS (48 WORDS)

TO THE FORM PRODUCTY ON THE ADDITION OF THE ANGULARY OF THE ANGU

MISSION ID. CL MORDI

4. (SROUP TO.D/CTAE NO.)/TAE = DESCRIPTION OF THE CO WORDS)

LOCATION CODE (1 WORD)

PRIORITY (1 WORD)

EQUIPMENT (5 WORDS)

PAYLOAD CREWMEN (10 WORDS)

AVAILABILITY WINDOUS (24 WOR'S)
IN THE RORM MADDAYY TO MMADDAYA
(A WINDOWS, 2 WORDS PER WINDOW)

- 5. LUCATA/INITAL = LIST OF INITIAL LOCATIONS (30 NORDS)
- A. LUCATNINORK = LIST OF WORK LOCATIONS (60 WORDS)
- 7. (EUCATION ID.) /FROM = LOCATION SU-COST-TIME (270 NORDS)
- 8. (MISSION ID.) /PAYSPC = CREWMEN. HOME LOCATION (27 WORDS TOTAL)
- P. CHORK LOCATION ID. DZIDY = WORK LOCATION (TOY COST (120 WORDS FORAL)

THE ATTRIBUTES IN PARENTHESES INCICATE VALUES WHICH MILL CHANGE SCION AS THERE MAYDE SEVERAL MISSION ID.*S AND ONE SUST BE USED AS AN ATTRIBUTE IN FLACE OF THE ENTRY IN THE PARENTHESES. MOMEVER SUCH ATTRIBUTES AS MISSIONALIST ARE HARD-MIRED AND ARE ACT CHANGED.

E. CREW TRAINING TIMELINE FILE DESCRIPTION PACTS OFFELT FILE (LIST-DIRECTED)

TITLE RECORDS ARE UNPER THE FOLLOWING FORMATS

LINE 1 (* SCHEDULE ID = **,IA) HEST SCHEDULE ID

LIRES = THRU A (* RESOURCES = **,AA*,A(****,AA*),ISX) RESOURCES

LINE 5 (* RESOURCES = **,AA*,A(****,AA*),ISX) RESOURCES

LINE 6 (* TOTAL COST = **,FIO.***,TX** HISSIONS = **,3AA*) COST & MISSIONS

LINES 7 THRU B (\$X**,1288.***,*,688.***) TOUR DEFINITIONS

LINE 9 (\$X**,888.***) TOUR DEFINITIONS

DATA RECORDS

WORD MNEMONIC DESCRIPTION

1 DOGUNT EVENT TIME (DAY COUNT)

2 DATE: DATE (MUZDOZYY)

3 DATE: UMER (MUZDOZYY)

POOR QUALITY

C

<

```
DURRITON C DAY COURT &
                 00116
                                    LUNATION ( LCRE COUNTS SROUP TO ATTRAVEL */***
                 MOUR
                 SIDITE
                                    THE NUMBER / COST / 0.0
THE TO / LOCATION TO / * *
LOCATION COLE / LOCATION FROM / LOC
                 TNUM/C
                 TIDYLT
                 LOC/L=
                                    CHEN ID
                 CREUL
                 CREWS
                                    TREM TO
                                    CREW ID
                 CREUT
                 CHEH4
                                    CREW ID
                 CREWS
                                    CREW TO
                 CREWS
                                    CREU ID
                                    CREW ID
16
17
18
19
21
22
23
24
                 CREUT
                                    CREU IO
                 CREWA
                 CREPT
                                    CREW 10
                 CREWIC
                                    CALW ID
                 RESI
                                     HESDURCES
                                    RI SOURCES
                 RES?
                 REST
REST
                                    RESOURCES
                                     PESOURCES
                 RESS
                                     RESOURCES
```

RESOURCES

IF THE DURATION SIVEN IN WORKS & ARE POSITIVE
NUMBERS, THEN THE VALUE IS AN ON TIME. IF THE VALUE
IS REGATIVE, THEN THE TIME IS AN OFF TIME.

• DENOTES FLOATING POINT DATA
HORDS 6 TERCUSH & WILL PEPRESENT & OF 3 DISTINCT AND
DIFFERENT VALUES. IF 6 RETURNS A GROUP ID. THEN
WORDS 7 THROUGHT & PILL BE THE SITTS LIGHD 105 PHRASES
UNDER DESCRIPTION. IF 6 RETURNS THE WORD TRAVEL. THEN
USL THE SECOND DESCRIPTION OF ROBES 7-7. IF 6 RETURNS
THE WORD HOME. THEN USE THE THIRD DESCRIPTION OF WORDS
7-4. THAT IS. IF 6 = ID. THEN 7 = J.O.

PACTS USERPS INFORMATION
THE PACTS HODULE HAS FOUR PRINCIPAL FUNDS WHOSE RELATIONSHIP IS SHOWN SELOW.

```
FAIN
                  MENU
                                    . DUTPUT .
INPHI
                                       PEAR
ME MIT
             . CONTROL .
```

EACH MENU IS SHOWN RELOW WITH AN ACCOMPANYING EXPLANATION WHERE NEEDED. IN THE MAIN AND EACH SUB-MENU ONLY ONE OPTION MAY BE SELECTED AT A TIME.

```
1 U - TEPMIGATE
1 I - CREATE A DEMINATION DIPS THE
1 D - TRANSFER TO BATA PASE LULTON (PACTOR)
```

: 3 - SETUP/EDIT INDUT DATA

4 - GENERATE THIAL SCHEDULES AND SELECT BEST

5 - DISPLAY SUMMARY OF HEST SCHEDULE

6 - TABULATE SCHEDULE AND URITE OUTFUT FILE

7 - TRANSFER TO REPORT GENERATOR

8 - SAVE DATA FROM THIS CASE FOR FUTURE USF NOTE : CHTIONS #+5 AND & ARE NOT AVAILABLE UNTIL DATA IS LOADED VIA CPTION 3 OF THE PAIN NEW AND OPTIONS 1. 2 AND 10 OF THE INPUT MENU. AFTER THIS DATA IS LOADED OPTION 4 IS AVAILABLE BUT 5 AND 6 ARE NOT READY FOR USE UNTIL OPTION 4 IS EXECUTED. INPUT MENU (OPTION 3 OF HAIN MENU)

O - RETURN TO MAIN CONTROL

1 - LOAD DATA FROM PREVIOUS CASE 2 - LOAD RESCLECE AND TRAVE COSTATTHE DATA 3 - EDIT CONTROL DATA 4 - EDIT TOUR DEFINITIONS 5 - EDIT WORK DAY DURATIONS 6 - EDIT HISSION LIST
7 - EDIT LIST OF PAYLOAD SPECIALISTS
8 - EDIT LIST OF THE GROUPS
9 - EDIT FIXED ORDER LIST : 14 -LOAD TAE MODELS NOTE : OPTIONS 1: 2 AND 10 MUST BE EXECUTED BEFORE TRIAL SCHEDULES CAN BE GENERATED (MAIN HEND). HOWEVER, DATA MAY BE LOADED BY USE OF THE EDIT OPTIONS. OPTION 3 DISPLAYS A SHR-MENUIC CNIROL MENUI BY SELECTION OF OPTION 3 IN THE INPUT MENU THE CONTROL MENU IS DISPLAYED IN THE FORM OF TWO SHALL MENUS ... CONTROL PENUS ... NUMBER OF SCHEDULES TO ATTEMPT RANDOM NUMBER SEED CURRENT EVALUATION PRIORITIES ARE AS FOLLOWS NUMBER OF TAF'S SCHEDULED AVERAGE NUMBER OF TAE STAROUP SCHEDULED SCHEDULE COST INPUT CHANGES, IF DESTRED : ENTER O TO DISCARD NOTE : IN BOTH DISPLAYS THE VALUES ARE ENTERED ON ONE LINE SEPARATED BY BLANKS *** OUTPUT BEN'! *** OUTPUT MENU POPTION 6 OF MAIN MENU) SELECT PRINT AND FILE OPTIONS. DEFAULT PRINT OPTION O = NO PRINT OUT

1 = PRINT ON TIMES ONLY

2 = PRINT ALL TIMES

CLEAULT FILE OPTION

O = NO FILE 1 = PPITE 10= FILE 2 = URITE ON/OFF FILE 3 = WRITE BOTH

NOTE :

FACILL ALSTRACT

THE PAYLUAD CREW TRAINING TIFFLINE CLITOR IS AN INTERACTIVE MODULE WHICH DISPLAYS AND EDITS THE TIMFLINE PRODUCED BY THE SCHEDULING PCDULE UPACTS). THIS MODULE USES THE LIST-CIRCUTED AND NAME-DIRECTED FILES FROM PACTS TO CREATE A SCRATCH THE FOR FOLTING. THEN WRITES UPDATED LIST-DIRECTED AND ONZOFF TILES. TRAVEL ANALYSIS IS CALCULATED ONLY IF THE OPTION TO COIT THE EVENT TIMELINE IS DEING EXECUTED. DATA WHICH MAY BE DISPLAYED OR EDITED ARE THE CREW TIFFLIAE. THE EVENT TIMELINE. AND THE COMPOSITE TIMELINE, ALSO OPTIONS ARE AVAILABLE TO DELETE A GROUP FROM THE THELINE. OPTIONS ARE AVAILABLE TO TRANSFER TO EITHER THE REPORT SEMERATUR (PACTES) OR THE DATA MAKE EDITCH (PACTES). THE EDITINS OF THE CREW, EVENT AND COMPOSITE TIMELINES REQUIRES A TEKNRONIX TERMINAL, OTPERLISE PACTED IS AVAILABLE AT ANY TERMINAL OR IN HATCH MODE.

RESPONSIBLE ENGINEER : DAVID SHIPMAN ELIZ 453-4735

PACTED ENGINEERING INFOFFATION

DOES NOT APPLY'TO THIS MODULE

PACTED PROGRAMMING INFORMATION
THE TIMELINE EDITING HODILE (PACTED) INTERACTS WITH THE REPORT
SENERATOR (PACTES) AND THE DATA BASE COLOR (PACTOB) BY SETTING THE
VALUE OF 'SOTO' IR THE MIPS NAME—DIRECTED FILE 'MPS-TT'. A NAME—
DIRECTED FILE WHICH IS SUMERATED BY PACTOB IS REQUIRED FOR INPUT.
THIS FILE IS HEAD AND DATA IS LOADED INTO AN NIRAL FILE FOR EDITING.
THE MODULE SAVES ITS COMMON SLOCKS FOR USE WHEN RETURNING FROM PACTOB
AND PACTRS.

A. PROGRAM BLOCK DIAGRAM
BELOW IS A SIMPLIFIED BLOCK DIAGRAM
SHOWING THE CAPABILITIES OF THE PROGRAM

O - TERMINATE - GISPLAY USAGE INFORMATION - DISPLAY/EDIT COMPOSITE TIMELINE >>>>>>>>>>>>>>>>>>>>>>>>>>>> - DASPLAY/EDIT EVENT TIMELINE AND POST-PROCESS TRAVEL >>>>>>>> - LELETE SROUP FROM TIMELINE - DISPLAY/EDIT CREW TIMELINE >>>>>>>>> - CLEFFE CREW FROM TINELINE - TRANSFER TO PACT DATA BASE MODULE (PACTOB) • WRITE NEW TIMELINE FILES ****************** - THANSFER TO PACT REPORT SEMERATOR (PACTES) . EDITING INSTRUCTIONS LUCATE CROSSMAIRS ON VALUE TO BE ECITED. ENTER COMMAND CHARACTER AND PRESS RETURN KEY . CIF CROSSHAIRS ARE NOT VISUE THEY MAY BE ... OFF SCREEN, TURN THIMB WHELLS AND OR PRESS RETURN KEY.) *<<<<<< EDITING COMMANDS ARE LISTED SELCW E - ENTER NEW VALUE FOVERSTRIKING OLD VALUE
P - ENTER NEW VALUE IN WARE ARRA OF SCREEN
A - ADD SPECI-IED TALES) TO A DROUP CHELTIFUE WITSTIONS WILL BE ASKED

NAL PAGE IS

```
0 - DELETE SPECIFIED TAF (EVENT)
                  RECHAR SCHEEN
                  STOP FOITING
             T - SPECIES TIPE POINT FOR MEXT PAGE
C - CONTINUES BESINNING WITH MIXT TIME POINT
                  SESIN PROCESSING ALOTHER CHERPAN
             H - REDISPLAY THES TUTORING CHEEP)
          SELECT PRINT AND FILE OPTIONS.

DEFAULT PRINT OPTION

O - NO PRINT OLT

1 - PRINT ON TIMES UNLY

2 - PRINT ALL TIMES

DEFAULT FILE OPTION
                                                                           • < < < < < < < < < < <
             0 - NO FILE
1 - WRITE LOF FILE
              > - URITE ON/OFF FILE
              9 - MRITE SOTH
             . . . . . . . . . . . . . . . . . . .
B. COMPUTER CONFIGURATION
                                      : FORTRAN
         LANSUALE
         CORE REQUIREMENT
                                      : 35.47 K
: NANE-DIRECTED FILE CONTAINING
: NANE-DIRECTED FILE CONTAINING
                                        35.47 K
         INPUT FILES
                                         MISSION DEPENDENT DATA AND THE HODELS.
                                         LIST-DIRECTED FILE CONTAINING
                                         MISSION TIMELTHE STATUS
                                      : LIST-DIRECTED FILE CONTAINING
         OUTPUT FILES
                                         MISSION TIMELINE STATUS
ONFORT TILL CONTAINING
                                         CREW ACTIVITIES
                   **** SUBROUTING FUNCTIONS ****
                       - ADDS SPECIFIED TAETS TO A GROUP
        AGU
        SLOCK DATA
                       - INITIALIZES COMMON BLOCKS
        CKCSEN
                          CHECKS FOR CREWMAN TRAVEL FOR AN EVENT
                       - CONVERTS GREGORIAN DATE: HORK DAY: OR CALENDAR
        GATES
                          DAY+ AND CHECK FOR A HOLTCAY
                       - CHECK DATE INPUT FOR MONTH/DAY/YEAR FORMAT - DELETES CREEMAN(MEN) FOR A SMECIFIED TIME FRAME
       DECDAY
       DELCRU
        DELETE
                         DELETES AN ENTIRE SHOLD FROM THE TIMELINE
                          AND SHOUP LIST
                         DRIVER TO DELETE A GROUP FROM THE TIMELINE
        DELSR
       UELREC
                       - DELETE A RECORD FROM TIMELINE
        DSCOM
                       - DISPLAYS COPPOSITE TIMELINE
                       - DISPLAYS CHEW TIMELINE
- CONVERTS FLOATING POINT ON AND DEE TIMES
        DSCFW
        DSUATE
                       TO A GREGORIAN DATE AND FOUR - DISPERYS EVENT TIMELINE
        DSEVE
       DUMP
                       - DIFFLAY AND SELECT PRINT AND CUTFUL FILE OPTIONS
                       - ORIVER TO DISPLAY AND FOLL COMPOSITE TIMELINE - DRIVER TO DISPLAY AND FOLL THE CHEW TIPELINE - DRIVER TO DISPLAY AND FOLL THE EVENT THELINE
       EGCOM
        EDCRW
       EDL VE
                       - UPDATES TIMELING ARRAYS GITH EDITS
- PRINTS A MESSAGE ON SHAPHIGS SCREEN BUT NOT ON
PRINT FILE
        LUIT
       ESCUR
        HELP
                       - OTSPLAYS COLITING COMMANDS FOR TIMELINE COLTS
                       - INSERT A DEL ALCORD IN THE
        INSERT
        LUEW
                       - LOAD CROPP LIST AND FAYEGAD SPECIALIST LIST - LOAD TRAVEL COST AND TRAVEL THE DATA
       L. CAHTO
        LOADT
```

LOCIVE

- CALCULATES THE LOCATION AND WORD SIZE DASED ON THE

```
POSITION OF THE CURSOR CROSSHAIRS FOR TIMELINE
                   DISPLAYS (NOT USED FOR TRAVEL RECORDS)
                   CALCULATES THE LOCATION AND WORD SIZE BASED ON THE POSITION OF THE CURSON CROSSHAIRS FOR TIMELINE DISPLAYS (USED FOR TRAVEL RECORDS)
LOCTAV
                  MAIN CONTROL FOR PECSAAM AND PAIN NEWS DISPLAY WRITES ON/OFF SCRATCH FILE WRITES ON/OFF FILE FOR OUTPUT
MAIN
ONFWRT
ONOFFE
OPTION
                   PASSELYS EDIT COMMANDS AT TOP OF PASE OF TIMELINE
PREADA
                   PISPIBLE MESSAGE ON SCREEN AND AVOIDS CARRIAGE
PRINT
                   PRESEST FIMELINE RECORDS ON ALTERNATE PRINT FILE
                 - READS UP TO 14 PORDS OF TAPUT FROM INTERACTIVE
PDCH12
                   TERMINALS TO ADD TAF'S TO A SHOUP
                   READS AND INTERPRETS FOITING COMMANDS
READS A RECORD FROM THE SCRATCH FILE
READS RECORDS FROM THE SCRATCH FILE BY GROUP CHAIN
RESTORES COMMON BLOCKS HOUN RE-ENTRY TO THE MODULE
FOORT
READ
READS
READ?
                   SAVES COMMON BLOCKS UPON EXIT FROM THE MODULE
READS START AND STOP TIMES FOR CREWMAN DELETION
SAVE
SLDAT
                   REGUESTS NAME-DIRECTED AND LIST-DIRECTED FILE NAMES FOR DATA INPUT
SLFILE
                - REQUESTS USER TO SPECIFY CREW FOR CHEW TIMELINE
- REQUESTS USER TO IMPUT STARTING DATE FOR DISPLAY
AND CHECKS FOR MONTH/DAY/YEAR FORMAT
SLPYL
STOATE
                 - REGOS A CREW TRATICING LIST-DIRECTED FILE AND WRITES
AN NTRAN FILE IN TIME ORDER BY ON TIME
- PETRIEVES TRAVEL COST AND TIME FROM ONE LOCATION
TO
TRAVCT
TRAVEL
                   CALCULATES TRAVE POST-PROCESSING FOR OPTION 3 OF
                    THE MAIN MENU
                - CONVERTS SREGORIAN ON AND DEF TIMES TO A DECIMAL
URDATE
                   * 3 PMUN
URTAV
                - WRITES TRAVEL RECORDS ON SCRATCH FILE AND PRINTS
                   A MESSAGE FOR TRAVEL VIOLATION ON ALTERNATE PRINT FILE
                  ARITES LIST-DIRECTED FILE FOR TIMELINE STATUS AND
WRFIL
                   ONZOFF FILE IF SELECTED ON OUTPUT FILE OPTIONS
```

CREATION OF ABSOLUTE ELEMENT SMAP+L EU-MAP+FD-SO LIE MIPS+ILIB+SYS++MS#C+ SEG MAIN IN MAIN+BLOCK DATA+CCC+ADEOUT SEG INITAL++(MAIN) IN SUFTLE + LOAD ND + YO SEG EDCOM++(M4IN) IN EPCON. BSCCM SEG EDENE * (MAIN) IN EDEVE TEST SEG DISPLAY** (EDEVE) IN DSEVE SEG TRAVEL . (EDEVE) IN LOADI+CKCRLW+RRTAV+FRAVCT SEG DELGR + + (MAIN) IN OFLER SES EDCRUA. (MAIN) IN EDCRN+SLPYL+DSCRK SES DELGRUA. (NAIN) IN DELCHWISLDAY SES WRIFTL . (MAIN) IN WRITTL . PRINT . OPTERT . LDTW . CHEP

O

(

(

D. NAME-DIRECTED INPUT FILE STRUCTURE TYPE OF FILE : NAME DIRECTED FILE

THE FULLOWING REPRESENTS THE ATTRIBUTES OF THE N=0 FILE AND THE RETURNED DATA IN THE FORM: ATTRIBUTE = DATA

MISTON/LIST = LIST OF MISSIONS (20 WERDS)

(MISSION 10.) = LIST OF GROUPS PER PISSION (200 NOROS)

9 9 8

(Shoup ID.) = Number of Taf's (I word)
Type of Tae (I word)
Effective date (2 words)
Description (I) words)
Avoidance wireces (46 words)
IN THE FORM MANDDAYY TO MANDDAYY
(12 windows-2 words fer window)
Group ID.
(Total of 63 words returned)

GROUP ID-P/(TAE 10.)/TAE = DESCRIPTION OF TAE (6 WORDS)
LUCATION CODE (1 WORD)
UELAY (MINIMUM AND MAXIMUM)
(2 WORDS)
TAE ID. (1 WORD)
DURATION (1 WORD)
RESCURCES (5 WORDS)
PRIDRITY (1 WORDS)
EQUIPMENT (5 WORDS)
PAYLOAD GREUMEN (10 WORDS)
TA THE FORM MAYDDMY
(6 WINDSWS) PRINDOWS)

LUCATRIVINITAL = 1151 OF INITIAL LUCATIONS (3C MORDS)

LUCATN/WORK = LIST OF WORK LOCATICAS (60 WORDS)

(LUCATION ID.) /= ROM = LOCATION TO + COST + TIME (270 hORDS)

IMISSION ID. DEPAYSED # CREUMEN - HOME ECCATION ISC WORDS TOTALD

THORK LOCATION ID. 17TOY # WORK ECCATION . TOY COST (120 WORDS (01AL)

THE ATTRIBUTES IN PARENTHESES INCICATE VALUES WHICH WILL CHANGE-SUCH AS-THERE MAYNE SEVERAL MISSION ID.'S AND ONE MUST BE USED AS AN ATTRIBUTE INFLACE OF THE EATRY IN THE PARENTHESES-HOUSVER-SUCH ATTRIBUTES AS MISSION/LIST ARE HARD RIRED AND ARE ACT USER CHANGED.

E. CREW TRAINING TIMELINE TILE DESCRIPTION

PACTED OUTPUT FILE (LIST-DIRECTED)

TITLE RECORDS ARE NOTER THE COLLOWING CORMATS
LINE 1 (* SCHEDULE ID = *+16) FEST SCHEDULE ID
LINES 2 THRU 6 (* RESOURCES = *+A6+0(*/*+A6)+15X) RESOURCES
LINE 5 (* RESOURCES = *+A6+0(*/*+A6)+46X) RESOURCES
LINE A (* TOTAL COST = *+F13-2+XX* MISSIONS = *+3A6) COST & MISSIONS
LINE 7 THRU 8 (1X+10F8-2+7+658-2) TOUR DEFINITIONS
LINE 9 (1X+957-2) TOUR DEFINITIONS

OATA RECORDS

PORD MORMONIC DESCRIPTION

EVENT TIME (DAY COUNT) DOUGHT CALL C WHALCAAA) DATEL DATES DURATION I PAY CEENT DOUR OURATION (WORK COUNT)
Short ID / TRAVE / / HOME HOUR 310/16 TAE ID / LOCATION TO / * * THUNKE TIDET LUCATION CODE / LOCATION FROM / LOC LOCALE CREUL 10 CREW ID CREUR CREW ID CREWS 13 CREW 10 CREWA CREW5 CREW ID 15 CRENA CREM TO CREW ID 16 CREW7 17 CREUB CREW ID CREWF 18 50 CREU ID CREWID RESOURCES REST RESOURCES 53 55 RES? KL SOURCES REST RESOURCES RE SA HE SOURCES RESS

RESS RESOURCES

* DENOTES FLOATING POINT DATA

THE DURATIONS SIVEN IN WORDS & AND 5 KILL REPRESENT

ON TIMES IF POSITIVE AND OTH TIMES IF REGATIVE.

WORDS & TEROUGH 9 WILL REPRESENT 1 OT 3 DISTINCT AND

DIFFERENT VALUES. IF WORD RETURNS A GROUP ID: THEN

UONDS 7 THROUGH 9 UTLL BE THE FIRST DISB COR EMBASE!

UDLER DESCRIPTION. IF 6 RETURNS THE WORD TRAVEL. THEN

USL THE SECOND DESCRIPTION OF KORDS 1-7. IF 6 RETURNS

THE WORD HOME. THEN USE THE THIRD DESCRIPTION OF MORDS

7-7. THAT IS: IF 6 = ID. THEN 7 = TAL B.IF 6 = TRAVEL.

7 = COST. IF 6 = HOME. THEN 7 = 2.0

PACTED USER'S INFORMATION

THE PACTED MODULE HAS A MAIN MENU FOR MAIN PROGRAM CONTROL. A
SUB-HERU FOR WITPUT AND A LIST OF EDITING COMMANDS WHICH APPLY TO THE
TIMELINE EDIT OPTIOUS FROM THE MAIN NEWS. THE FOLLOWING IS A SRIEF SUMMARY OF THEIR INTERACTION.

MAIN MENU : 0 - TERMINATE 1 - DISPLAY USAGE INTORMATION

2 - DISPLAY/FOIT COMPSITE TIMELINE
3 - DISPLAY/FOIT EVENT TIMELINE AND POST-FROCESS TRAVEL

4 - DELETE GROUP FROM TIMELINE
5 - DISPLAYZELIT CREW TIMELINE
6 - DELETE CREW FROM TIMELINE
7 - TRANSFER TO PACT DATA MASE MODULE (PACTUR)
8 - WRITE NEW TIMELINE FILES

B. B. Car

9 - TRANSPER TO PACT REPORT SENERATOR (PACTEG)

NOTE

TRAVEL IS NOT INSERTED EXCEPT BY OPTION 3 (EVENT TIMELINE) IN 2 AND 5 THE USLR MUST ALLOW FOR THIS. TOTAL TRAVEL COST IS CALCULATED BEFORE NEW FILES. ARE GRITTEN.

NOTE :

OPTION & DISPLAYS A SUB-HEAL COUPLIT NEADS OPTIONS 1: 2: 3 AND 5 DISPLAY THE EDITING INSTRUCTIONS AND EDITING CUPMANDS. HOWEVER, OPTIONS 2: 3 AND 5 DO NOT DISPLAY THESE IF IT HAS BEEN DONE PETORE.

EDITING INCIRUCTIONS

(OPTIONS 1- 2- 3- AND 5 OF MAIN MENU)

LOCATE CROSSHAIRS ON VALUE TO BE ECITED. EATER COMMAND

CHARACTER. AND PRESS RETURN KEY.

(IF CROSSHAIRS ARE NOT VISIBLE THEY MAY BE COMMAND THUMB WHEELS AND/OR PRESS RETURN KEY.) EDITING COMMANDS ARE LISTED BELOW

C - ENTER NEW VALUE OVERSTRIKING OLE VALUE

9 - ENTER NEW VALUE IN BLANK AREA OF SCREEN

A - ALL SPECIFIED TAP(S) TO A GROUP

(HULTIPLE QUESTIONS WILL BE ASKED)

D - BELETE SPECIFIED TAE (EVENT)

R - REDRAW SCREEN

T - SPECIFY TIME POINT FOR NEXT PAGE

C - CONTINUE, REGINNING WITH NEXT TIME POINT

(N) - BEDIA PROCESSING ANOTHER CREWMAN

H - REWISPLAY THIS TUTORING (HELP)

. H - REDISPLAY THIS TUTORING (HELP)

THE N OPTION APPLIES ONLY TO THE CHEW TIMELINE

PACTES ARSTRACT

THE PAYLOAD CREW TRAINING REPORT GENERATOR (PACTRG) USES THE PACT DATA BASE FILE CONTAINING TRAINING ACTIVITY ELEMENT (TAE) DESCRIPTIONS AND THE OUTPUT FILES FROM THE MODULE PACTS CONTAINING THE CREW TRAINING SCHEDULE TO GENERATE SPECIALIZED TABULATIONS AND PLOTS. TABULATIONS AVAILABLE ARE: A COMPOSITE SCHEDULE, A COMPOSITE SCHEDULE BITH COST AND DURATION. A SCHEDULE SUMHARY FOR ALL THE TAE GROUPS. UNSCHEDULED TIME FOR ALL LREWMEN. A SCHEDULE FOR AN INDIVIDUAL CREWMAN. AND UNSCHEDULED TAME AND LOCATIONS FOR AN INDIVIDUAL CREWMAN. TABULATIONS ON THE TERMINAL MAY BE ON ITTED WHILE PRODUCING TRAININGS ON THE PRINT FILE. THE MODULE INCLUDES AN OPTION TO PRINT ON THE PRINT FILE ALL TABULATIONS FOR A SPECIFIED TIME FRAME. BAR GRAPP PLOTS AVAILABLE: A SCHEDULE FOR ALL TAE GROUPS. SCHEDUING OPPORTUNITIES FOR ALL CREWMEN. A THELINE OF LOCATIONS. A RESOURCE UTILIZATION TIMELINE AND A LOCATION TIMELINE FOR AN INDIVIDUAL CREWMAN. THE PLOTS CAN BE DISPLAYED ONLY

AT A 19-INCH GRAPHICS TERMINAL.
PACTES IS AVAILABLE AT ANY SITE AND IN RATCH MODE WITH THE EXCEPTION
OF PLOTS WHICH REQUIRE A 19-INCH GRAPHICS YERNIAAL.
RESPONSIBLE ENGINEER: DAVID SHIPMAN ELLS 453-4735

PACTRG ENGINEERING INFORFATION

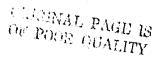
DOES NOT APPLY TO THIS PODULE

PACTES PROGRAMMING INFORMATION

THE PACT REPORT GENERATOR GENERATES TABLES VIA THE TEXTRONIX TERMINAL SCREEN AND THE HIGH SPEED PRINTER. PLCTS ARE ALSO DISPLAYED VIA THE TEXTRONIX TERMINAL. NAME-DIRECTED, LIST-DIRECTED AND ON/OFF FILES PRODUCED BY THE AUTOMATIC SCHEDULER (PACT) OR THE MANUAL SCHEDULER (PACTED) ARE NEEDED FOR USE OF ALL OF THE OPTIONS.

A. PROGRAM BLOCK DIAGRAM
BELOW IS A SIMPLIFIED BLOCK DIAGRAM WHICH SHOWS THE
CAPABILITIES OF THE MODBLE

| | ` | | | | |
|-------|-----|-----|---|-----------------------------------|---------|
| * | •• | • • | *********** | | • |
| • | | | PACTRG MAIN | I MENU | • |
| • | 0 | | TERMINATE | • | • |
| ٠ | ì | - | DISPLAY USAGE INFOR | MATION (HELP) | • |
| • | | | | KTRONIX AND TABLES ON TEXTRONIX>> | ·>>>> |
| * | - | | AND PRINT FILE | | • • |
| ٠ | 3 | | DISPLAY TABLES ON P | RINT FILE >>>>>>>>> | * *<<<< |
| | - | | | | |
| • • | •• | •• | | | |
| | | | | | |
| | | | | | |
| • • | • • | | | | |
| • | | | | | |
| • | | | SELECT PRIN | IT OPTION(S) DESIRED | |
| | ^ | _ | RETURN TO MAIN HEN | | |
| • | ۲ | - | | · ' | |
| | • | - | | SUMMARY +++ | |
| • | - | - | | | |
| : | - | _ | | CHEDULE WITH COST AND DURATION | |
| | - | | | MARY FOR ALL TAE GROUPS | |
| ٠ | • | *** | | | |
| ٠ | | - | | TIME FOR ALL CREWMEN | |
| ٠ | 6 | - | 7 | | |
| ٠ | | | | AY INDIVIDUAL CREWNAN *** | |
| ٠ | 7 | | PRINT SCHEDULE FOR | | • |
| ٠ | 8 | - | PRINT UNSCHEDULED | TIME AND LOCATIONS FOR A CREWMAN | • , • |



```
... INPUT FILE SETUP ...
      INPUT NAME-DIRECTED FILE
                                            CURREATLY
       INPUT LIST-OTRECTED FILE
                                             CURRENTLY
       INPUT ON/OFF FILE
                                            CURRENTLY
                 SELECT DISPLAY OPTIONISH DESIRED
    - RETURN TO MAIN MENU
    - TABULATE COMPOSITE SCHEDULE
    - TABULATE COMPOSITE SCHEDULE WITH COST AND DURATION PLOT BAR GRAPH OF SCHEDULE FOR ALL TAE GROUPS TABULATE SCHEDULE SURHARY FOR ALL TAE GROUPS
     - PLOT BAR GRAPH OF SCHEDULING OPPORTUNITIES FOR ALL
       SROUPS
    - PLOT UNSCHEDULED TIME FOR ALL CREWMEN
- TABULATE UNSCHEDULED TIME FOR ALL CREWMEN
- TABULATE TRAVEL SCHEDULE
- PLOT TIMELINE OF LOCATIONS
 10 - PLOT RESOURCE UTILIZATION TIMELINE
                   *** BY INDIVIDUAL CREWNAY ***
 11 - TABULATE SCHEDULE FOR A CREMMAN
12 - PLOT LOCATION TIMELINE FOR A CREMMAN
13 - TABULATE UNSCHEDULED TIME AND LOCATIONS FOR A
       CREMMAN
                    ... INPUT FILE SETUP ...
 14 - INPUT NAME-DIRECTED FILE
15 - INPUT LIST-DIRECTED FILE
16 - INPUT ON/OFF FILE
                                             CURRENTLY
                                             CURRENTLY
                                             CURRENTLY
B. COMPUTER CONFIGURATION
                                  FORTRAN
      LANGUAGE
      CORE REQUIREMENTS
                                  31.63 K
       INPUT FILES
                                  NAME-DIRECTED FILE CONTAINING MISSION
                                  DEPENDENT DATA AND THE HODGES
LIST-DIRECTED FILE CONTAINING SCHEDULE
TIME, RESOURCE AND TRAVEL COSTATIME DATA
ON/OFF FILE CONTAINING CREW ACTIVITIES
                                : PLOTS REQUIRE A 19 INCH TENTHONIX
      RESTRICTIONS
                         *** SUBROUTINES ***
                                                                       EXTERNAL NAME
  INTERNAL NAME
                - DISPLAYS HAR GRAPH OF SCHEDULIAG
                                                                    . BCHART/PACTRS
                  OPPORTUNITIES FOR ALL SKOUPS
                                                                    . BSRID /PACTRG
                  DRAWS PLOTS
 AGRID
 BLOCK-DATA - INITIALIZES COMMON BLOCKS
                                                                      BLOCK-DATA/PACTRG
                  CONVERTS GREGORIAN DATE: ADRIBAY
                                                                    . DATE /PACTS
 DATES
                   OR CALENDAR DAY AND CHECKS FOR A
                   HOL IDAY
                - CHECKS DATE INPUT FOR HONTH/DAY/YEAR . DECDAT/PACTRG
 DECDAT
                   FORMAT
                  DISPLAYS COMPOSITE SCHEDULE
                                                                    . DISJ /PACTRG
 DISJ
                   TABULATION
                - DISPLAYS COMPOSITE SCHEDULE WITH COST AND DURATION
                                                                    . DISK /PACTRG
 DISK
                - DISPLAYS HAR CHART OF SCHEDULE FOR
                                                                    . DISL /PACTRG
 DISL
                   ALL TAE GROUPS
 DISM
                - DISPLAYS TARBLATION OF SCHEDULE
                                                                    . DISM /PACTRG
                   SUMMARY FOR ALL TAE GROUPS
```

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| DISN | - DISPLAYS PLOT OF MAR GRAPH OF | • | DISM /PACTRG |
|----------|---|---|---------------|
| | SCHEOULING OPPORTUNITIES FOR ALL TAE GROUPS | | |
| 0150 | - DISPLAYS PLOT OF UNSCHEDULED TIPE | | CISO /PACTEG |
| | FOR ALL CREWNEN | | |
| DISP | - DISPLAYS TARULATION OF UNSCHEDULED | • | CISP /PACTRG |
| **** | TIME FOR ALL CREWNEN | | |
| 0150 | - DISPLAYS COMPOSITE TRAVEL SCHEDULE - DISPLAYS PLOT OF TIMELINE OF | | DISG /PACTEG |
| BISR | LOCATIONS | • | OCHT PERCENS |
| OISS | - DISPLAYS PLOT OF RESOURCE | ٠ | DISS /PACTEG |
| | UTILIZATION | | |
| DIST | - DISPLAYS SCHEDULE FOR AN INDIVIDUAL | • | DIST /PACTEG |
| | CREWHAN - DISPLAYS PLOT OF LOCATION TIMELINE | _ | nieu 404e=00 |
| UZIO | FOR AN INDIVIDUAL CREWMAN | • | DISU /PACTEG |
| DISV | - DISPLAYS TABULATION OF UNSCHEDULED | ٠ | DISV /PACTEG |
| | TIME AND LOCATIONS FOR A CREWPAN | | |
| FILEL | - REQUESTS LIST-DIRECTED FILE NAME | • | FILEL /PACTEG |
| | FROM USER, CHECK IF "ILE IS READY. | | |
| FILEN | IF REQUIRED TYPE AND RECORD SIZE - REQUESTS NAME-DIRECTED FILE NAME | | FILEN /PACTES |
| ricen | FROM USER CHECKS IF FILE IS READY | • | FALLS PENGING |
| | AND REQUIRED TYPE (N-D) | | |
| FILEO | - REQUESTS ON/OFF FILE NAME FROM USER. | • | FILED /PACTRG |
| | CHECKS IF FILE IS READY AND CORRECT | | |
| CODATA | TYPE LOADS GROLP DATA INTO CORE FROM A-D | _ | GRDATA/PACTEG |
| GRD AT A | FILE | • | SHEATAPPACIAG |
| LCHART | - DISPLAYS BAR CHART OF SCHEDULE FOR | ٠ | LCHARTIPACTES |
| 20174111 | ALL TAE GROUPS | | 20 |
| LEDSEN | - REQUESTS LEGEND TO DE USEC WITH | • | LEDGEN/PACTRG |
| | DISPLAYS | | |
| LOADCR | - LOADS CREW DATA FROM ON/OFF FILE - LOA'S GROUP LIST FROM N-D FILE INTO | | LOADCR/PACTRG |
| LOADSR | CORE | • | LOADGR/PACTEG |
| LOADHN | - LOADS CREW AND INITIAL LOCATIONS | | LOADHM/PACTRG |
| | FROM N-D FILE INTO CORE | | |
| LOADLN | - LOADS LIST OF HOME AND WORK | • | LOADLN/PACTRG |
| | LOCATIONS FROM N-D FILE INTO CORE | | LALODUADACTOS |
| LOVODA | " LOADS CREW ID'S TROM N-D TILE INTO CORE | • | LOADPY/PACTRG |
| LOADRS | - LOADS RESOURCE DATA FROM N-D FILE | | LOADRS/PACTEG |
| | INTO CORE | | |
| LOADT | - LOADS THE DATA INTO CORE FROM N-D | • | LOAUT /PACTRG |
| 4.4.5. | FILE | | TOH 4040700 |
| LOADTY | - LOADS TOY DATA INTO CORE FROM N-O FILE | • | TOY /PACTEG |
| MAIN | - HAIN PROGRAM CONTROL | | MATH /PACTEG |
| MENU | - MAIN DRIVER FOR TEKTRONIX DISPLAY | | MENU JPACTEG |
| | OPTIONS | | |
| OCHARY | - DISPLAYS PLOT OF UNSCHEDULED TIPE | ٠ | OCHARTIPACTEG |
| PHENU | FOR ALL CREWMEN - MAIN OF IVER FOR PRINT OPTIONS | | PHENU JPACTES |
| PRINT | - PRINTS ALL TABLES FROM PRINT MENU | | PRINT /PACTRG |
| PRTJ | - PRINTS COMPOSITE SCHEDULE ON PRINT | | |
| | ₹ LL.€ | | |
| PRTK | - PRINTS COMPOSITE SCHEDULE WITH COST | • | PRIK JPACTRG |
| 007# | AND DURATION ON PRINT FILE | _ | PRIM /PACTRG |
| PRTM | - PRINTS SCHEDULE SUMMARY FOR ALL TAE | • | enin Prasifiu |
| PRIP | - PRINTS UNSCHEDULED TIME FOR ALL | | PRIP PACIES |
| | CHEWMEN ON PRINT FILE | | |
| PRTO | - PRINTS TRAVEL SCHEDULE ON PRIAT FILE | | |
| PRTT | - PRINTS SCHEOULE FOR AM INDIVIDUAL | * | PRIT /PACTRG |
| | CREUMAN | | |

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PRTV
                      - PRINTS UNSCHEDULED TIME AND
                                                                         . PRTY JPACTRS
                      LUCATIONS FOR AN INDIVIDUAL CRESHAN -- PLOTS TIMELINE FOR LOCATIONS
                                                                            RCHART/PACTRG
       RCHART
                      READS AND INTERFRETS COPPANDS USED FOR CONTROL AFTER DISPLAYS - PLOTS RESOURCE UTILIZATION
                                                                         . FOOPY JPACTOS
       RDOPT
                                                                         . SCHART/PACTES
       SCHART
                      - QUERTES USER FOR START AND END TIMES . SLDAT /PACT
        SLOAT
                      FOR TABLES - OUCHIES USER FOR START AND DELTA
                                                                         . SLDEL /PACTRG
        SLDEL
                         TIMES FOR USE IN PLOTS
ASKS USER FOR MISSIONIS) DESIRED IN
                                                                         . SLHIS /PACTES
        SLMIS
                         DISPLAYS
        SLPYL
                         ASKS USER TO SPECIFY CREHNAN TO USE
                                                                         . SLPYL /PACTRG
                         IN DISPLAY
                       - PLOTS LOCATION TIMELINE FOR A
                                                                         . UCHART/PACTRS
        UCHART
                         CREVHAN
                      - TAKES THE UNION OF THE GROUP
AVAILABILITY WINDOWS AND SUBTRACTS
THE AVOIDANCE WINDOWS FOR PLOT OF
                                                                         . UNIONT/PACTEG
        UNIONT
                         SCHEDULING OPPORTUNITIES FOR ALL
                         SROUPS
C. CREATION OF ABSOLUTE ELEMENT BYAP-IL RG-MAP-RG-GO
LIB MIPS . IL 19 . SYSS . MSFCS
 SES MAIN
    IN MAIN ISLOCK-DATA
      SEG A++(HAIN)
IN USASE+ROOPT+HENU
          SEG ALATIA
             IN DISJ
          SEG A16++IA)
          SEG ALC*+1A)
IN DISM
           SES ALGORIAN
            IN DISP
          SES ARE++IA)
IN OFSO
           SES AIF++(A)
           563 ALL+, (A)
            IN DISV
          SES 42++ (A)
            IN SLUEL DECDAT
            IN BEHIC-LEDGEN
SEG APA+ (A2)
```

IN DISLILCHART SEG A23++(A2)

SEG BOVEMATN)
IN PMENUSERINT
SEG BIAOVER
IN PRTJ
SEG BIBOVER)
IN PRTK
SEG BICOVER)
IN PRTK

IN DISN, UNIONT, BCHARY
SEG A2C++(A2)
IN DISO, DCHARY
SEG A2C++(A2)
IN DISR, RCHART
SEG A2E++(A2)
IN DISS, SCHART
SEG A2F++(A2)
IN DISU, UCHART

(

(

302

SES 510++(6) IN PRIP 5EG 81E++(B) IN PRTO SEG 915+1(8) IN PRTT SES 918+ (8) IN PRTV END

PACTES USER'S INFORMATION

THE PACTRS HODGLE HAS THREE HENUS. BELOW IS A DIAGRAM SHOWING THE RELATIONSHIP BETWEEN THE HENUS.

MENU

* DISPLAY * MENU

PRINT MENU

EACH MENU IS SHOWN BELOW WITH AN ACCOMPANYING EXPLANATION WHERE NEEDED. IN THE MAIN MENU ONLY CHE OPTION PAY BE SELECTED AT ONE TIME. IN BOTH THE DISPLAY AND PRINT HENUS AS MANY AS TEN OPTIONS MAY BE SELCYED AT ONE TIME.

PACTES HAIN MENU

O - TERMINATE

1 - DISPLAY USAGE INFORMATION (HELP)
2 - DISPLAY PLOTS ON TEXTRONIX AND TABLES ON TEXTRONIX

AND PRINT FILE

3 - DISPLAY TABLES ON PRINT FILE

NOTE :

*OPTIONS 2 AND 3 DISPLAY SUBMENUS

MULTIPLE SELECTIONS WILL BE PROCESSED FROM THE FOLLOWING MENUS.

SELECT DISPLAY OPTION(S) DESIRED

O - RETURN TO MAIN MENU

*** SLHHARY ***

1 - TABULATE COMPOSITE SCHEDULE
2 - TABULATE COMPOSITE SCHEDULE LITH COST AND DURATION
3 - PLOT BAR BRAPH OF SCHEDULE FOR ALL SROUPS
4 - TABULATE SCHEDULE SUMPARY FOR ALL TAE CROUPS
5 - PLOT BAR BRAPH OF SCHEDULING OPPORTUNITIES FOR ALL

GROUPS

6 - PLOT UNSCHEADILED TIME FOR ALL CREUMEN

7 - TABULATE UNSCREDULED TIME FOR ALL CREMMEN
18 - TABULATE INSCREDULE
29 - PLOT TIMELINE OF LOCATIONS
10 - PLOT RESOURCE UTILIZATION TIMELINE

* *** BY INTIVIDUAL CREWMAN ***

11 - TABULATE SCHEDULE FOR A CREWMAN

12 - PLOT LOCATION TIMELINE FOR A CREWMAN

13 - TABULATE UNSCHEDULED TIME AND LOCATIONS FOR A CREWNAN

*** INPUT FILE SETUP ***

" MULHAL PAGE L THE POOR QUALITY

: 14 - INPUT NAME-DISECTED FILE 1 15 - INPUT LIST-DIRECTED FILE 1 16 - INPUT ONZOTE THE CUPRENTLY CHERENTLY NOTES : *OPTIONS 1> 2+ 7+ H+ 11+ AND 13 ASK USER TO IMPUT START AND FNU TIMES FOR DISHLAY (MUST BE IN MONTH/DAY/YEAR FORMAT),
ADDITIONS 3. 5. 6. 9: 10: AND 12 REQUEST INPUT OF START
AND DELIA TIMES TO BE USED IN FLOTS (START IS IN
MONTH/DAY/YEAR FORMAT AND DELTA IS IN WEEKS). *OPTIONS 3. 4. 5. 10 AND 12 ASK FOR PISSIONES) TO USE FOR DIPLAYS. SELECT PRINT OPTION(S) DESIRED O - RETURN TO MAIN MENU 1 - PRINT ALL TABLES *** KUMMARY *** 2 - PRINT COMPOSITE SCHEDULE 3 - PRINT COMPOSITE SCHEDUL WITH LOST AND DUNATION 4 - PRINT SCHEDULE SUMMARY FOR ALL TAE GROUPS 5 - PRINT UNSCHEPLLED TIME FOR ALL CREWPER 6 -- PRINT TRAVEL SCHEDULE

*** BY INDIVIDUAL CREWMAN

7 -- PRINT SCHEDULE FOR A CREWMAN

8 -- PRINT UNSUABBLED TIME AND LOCATIONS FOR A CREWMAN

*** INPUT HILE SETUP 9 - INPUT NAME - BIRECTED FILE CURRESTLY : 10 - INPUT LIST-DIRECTED FILE CURRENTLY

11 - INPUT ON/OFF FILE

NOTES :

*ALL OPTIONS EXCEPT FOR FILE SETUP ASK USER TO INPUT START AND END TIMES (IN PORTH/DAY/ FORMAT)
*OPTION & ASKS FOR MISSION(S) TO BE USED
*IF RECUBED FILES HAVE NOT BEEN ATTACHED, THEN THE BELECTED OPTION WILL ASK FOR INPUT D- REQUIRZO FILE NAME. *ILES MAY ALSO BE ATTACHED WITH OPTIONS 9, 10 AND 11.

CURRENTLY

APPROVAL

PAYLOAD CREW That INING SCHEDULER (PACTS) USER'S MANUAL

By David L. Shipman

The information in this report has been reviewed for technical content. Review of any information concerning Department of Defense or nuclear energy activities or programs has been made by the MSFC Security Classification Officer. This report, in its entirety, has been determined to be unclassified.

THOMAS P. ISBELL

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